

Power Management Selection Guide



Technology Innovation
Excellent Quality



Company Profile

Globaltech Semi is leading supplier of power management ICs solutions.

Founded in Jan 2003 and located in Taiwan Taipei Neihu Technology Park with additional offices in Shenzhen, U.S., and Canada.

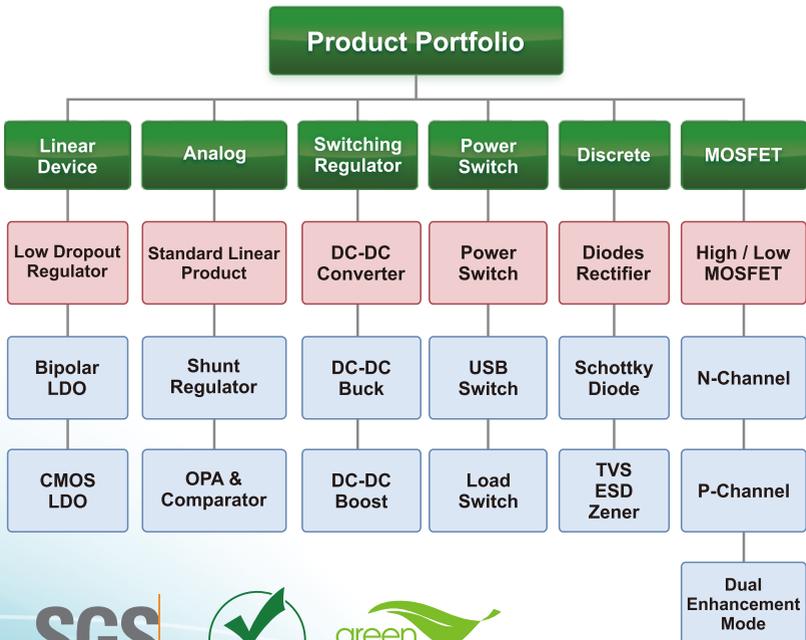
Globaltech Semi is a leading global manufacturer and supplier of high-quality application products in power management ICs and MOSFETs, include the broad discrete, analog and logic semiconductor markets.

Globaltech Semi is successful in the market of PC motherboard, notebook and networking, internet, portable devices, Smart Home, LCD TV, and even power supply manufacturers.

Quality and Green Commitment

Globaltech Semi is committed to providing environmentally friendly products are SGS qualified and meet RoHS standards, halogen free options. Under such highly competitive environment, we have a strong faith in professionalism, experience, customer service.

Product tree





VR / AR



Game Console



Smart Speaker



Bluetooth Headset



Networking



TV / NB



Smart Phone / Tablet



Smart Home

Linear Regulators

Linear Regulators	02
Low- I_o or High PSRR	02

Standard Linear Product

Shunt Regulator	03
Operational Amplifier	03
Comparator	03
Audio Amplifier	04
RS232-Transceiver	04

DC-DC Converters

Buck	05
Boost	05
Buck or Boost	05

MOSFET

N-Channel	06
P-Channel	10
Dual Enhancement Mode	12

Diodes and Rectifiers

Standard Rectifiers	13
Super-Fast Rectifiers	13
Small Signal Switching Diodes	14
Schottky Rectifiers	15
BJT	19

ESD Protected

ESD	20
Zener	20
TVS	28

Protected Switches

USB Switches	42
Load Switches	42

Appendix

Surface Mount Packaging	43
Outline Dimensions	44
IC Cross Reference	46

Linear Regulators

Product	Supply Voltage	Output Current	Output Voltage	Dropout Voltage	IQ (TYP)	Accuracy	PSRR	Enable	Package Type
	V	A	V	V	mA	%	dB		
GS1117A	2.7~15	1	ADJ(Vref=1.25) Fixed(1.2 to 5)	1.3	7	2	-	N	SOT-89、SOT-223、TO-252
GS1084L	2.7~15	5	ADJ(Vref=1.25)	1.3	10	2	-	N	TO-263、TO-252、SOT-223
GS1085L	2.7~15	3	ADJ(Vref=1.25) Fixed(1.5/1.8/ 2.5/3.3/5)	1.3	10	2	-	N	TO-263、TO-252、SOT-223
GS2231	1.2~5.5	3	ADJ(Vref=0.8)	0.24	0.6	2	-	Y	PSOP-8
GS2906B	2.5~6	0.5	ADJ(Vref=0.8) Fixed(1.2 to 3.3)	0.37	0.04	2	-	Y	SOT-23-5L
GS2333/50	3~35	0.25	Fixed(3.3/5)	0.6	0.001	2	-	N	SOT-89
GS2924	2.5~12	0.3	Fixed(1.5/1.8/ 2.5/3.3/5)	0.7	0.001	2	-	N	SOT-23、SOT-89
GS78L05	8~30	0.1	Fixed(5)	1.7	6	4	-	N	SOT-89、SOP-8、TO-92
GS7805	7~25	1	Fixed(5)	2	8	2	-	N	TO-252、TO-263

Low-I_Q or High PSRR

Product	Supply Voltage	Output Current	Output Voltage	Dropout Voltage	IQ (TYP)	Accuracy	PSRR	Enable	Package Type
	V	A	V	V	mA	%	dB		
GS2813	2~6	0.3	Fixed(1.2/1.5/ 1.8/2.5/2.8/3/3.3)	0.45	0.025	2	65	Y	SOT-23、SOT-23-5L
GS2803	1.5~5.5	0.25	Fixed(1/1.2/1.5/ 1.8/2.5/2.8/3/3.3)	0.17	0.001	1	-	Y	SOT-23、SOT-23-5L、DFN1x1-4L
GS2823	1.6~5.5	0.3	Fixed(1.2/1.5/ 1.8/2.5/2.8/3/3.3)	0.15	0.1	1	80	Y	SOT-23、SOT-23-5L、DFN1x1-4L



Shunt Regulator

Product	Supply Voltage	Output Current	Reference Voltage	Supply Current	Accuracy	Package Type
	V	A	V	mA	%	
GS431	2.5~36	0.1	Vref=2.5	1	0.5 · 1	SOT-23

Operational Amplifier

Product	Property	CH	Supply Voltage	Supply Current	Offset Voltage	Input Bias Current	Gain Bandwidth	Output Current	Package Type
			V	mA	mV	nA	MHZ	mA	
GS321LV	OPA	1	1.8~7.0	0.06	1	0.001	2.2	25	SOT-23-5L
GS321	OPA	1	3~32	0.5	2	20	1.8	20	SOT-23-5L
GS358	OPA	2	3~32	0.5	3	20	1.8	20	SOP-8
GS324	OPA	4	3~32	0.7	3	20	2	20	SOP-14

Comparator

Product	Property	CH	Supply Voltage	Supply Current	Offset Voltage	Input Bias Current	Response Time	Low-level Current	Package Type
			V	mA	mV	nA	μS	mA	
GS391	Comparator	1	2~32	0.8	2	25	1.3	6	SOT-23-5L
GS393	Comparator	2	2~36	0.4	2	25	1.3	6	SOP-8
GS339	Comparator	4	2~36	0.8	2	25	1.3	6	SOP-14



Audio Amplifier

	Operation Voltage	Efficiency @8Ω	IQ	16.5W@8Ω THD+N	9.3W@8Ω THD+N	Input Type	Speaker Outputs	Operating Temperature Range	Architecture	Package Type
	V	%	mA	°C						
GSA3110	8~26	88	30	10% at 18V	10% at 12V	Analog	2	-40~85	Class D	TSSOP-28



RS232-Transceiver

	Vin	Drive Current	IQ	Receiver TPLH / TPHL	Receiver TTLH / TTHL	Driver TPLH / TPHL	Driver TTLH / TTHL	Package Type
	V	mA	mA	nS	nS	nS	nS	
GS75232	+/- 15	10	30	150/50	175/20	500/175	100/75	SOIC-20 · TSSOP-20 · SSOP-20



Buck

Product	Supply Voltage	Output Current	Output Voltage	Frequency	IQ (TYP)	Efficiency (TYP)	Soft Start	Enable	Package Type
	V	A	V	MHZ	mA	%			
GS5276	6~40	3	ADJ(Vref=1.23) Fixed(3.3/5)	0.052	5	75	N	Y	TO-252-5L TO-263-5L TO-220-5L
GS5256	4.5~40	3	ADJ(Vref=1.23) Fixed(3.3/5)	0.15	5	75	N	Y	TO-263-5L TO-220-5L
GS5484	4.5~24	3	ADJ(Vref=0.925)	0.34	1.1	92	Y	Y	PSOP-8
GS5581	2.6~6	1	ADJ(Vref=0.6)	1.5	0.04	96	Y	Y	SOT-23-5L DFN2x2-6L
GS5582	2.5~5.5	2	ADJ(Vref=0.6)	1.5	0.04	95	Y	Y	SOT-23-5L SOT-23-6L
GS5583	2.5~5.5	3	ADJ(Vref=0.6)	1.5	0.04	95	Y	Y	SOT-23-6L

Boost

Product	Supply Voltage	Output Current	Output Voltage	Frequency	IQ (TYP)	Efficiency (TYP)	Soft Start	Enable	Package Type
	V	A	V	MHZ	μA	%			
GS5801	0.6~4.5	0.8	Fixed(2.1/3.3/5)	2	40	96	N	Y	SOT-23-5L
GS5802	2.0~24	1	ADJ(Vref=0.6)	1.2	100	93	Y	Y	SOT-23-6L
GS5805	2.6~5.5	2	ADJ(Vref=0.6)	1	400	93	Y	Y	PSOP-8

Buck or Boost

Product	Supply Voltage	Output Current	Output Voltage	Frequency	IQ (TYP)	Efficiency (TYP)	Soft Start	Enable	Package Type
	V	A	V	MHZ	mA	%			
GS534063	3~40	1.5	ADJ(Vref=1.25)	0.1	4	-	N	N	SOP-8 · DIP-8



N-Channel

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _o 25°C (W)	RDS _{on} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
													typ.	typ.	typ.
GSM1072K	N	20	12	0.95	0.35	1	0.15	-	380	450	800	SOT-723	38.2	6	1
GSM1012	N	20	12	0.7	0.4	1	0.27	-	360	420	560	SOT-523	70	8	1.06
GSM2320Y	N	20	8	0.8	0.3	1	0.312	-	300	400	550	SOT-523	38.2	6	1
GSM2320P	N	20	8	0.8	0.45	1	0.275	-	300	400	550	SOT-323	38.2	6	1
GSM2320K	N	20	8	1.45	0.3	1	1	-	300	400	550	SOT-23	38.2	6	1
GSM2302	N	20	10	4	0.3	1	1.56	-	65	80	120	SOT-23	180	26	3.6
GSM3414S	N	20	10	5.8	0.4	0.8	1.56	-	25	35	55	SOT-23	535	34	7.7
GSM2312P	N	20	10	6.7	0.3	0.8	1.56	-	19	24	32	SOT-23	600	45	5.8
GSMDK2314	N	20	10	5.6	0.4	1	1.47	-	26	36	51	SOT-89	535	34	7.7
GSM2310KZ	N	20	10	30	0.3	1	26	-	10	12	17	DFN3X3-8L	1020	110	16.9
GSM2306Z	N	20	10	65	0.3	1	44.6	-	5.4	6.8	8.8	DFN3X3-8L	1920	180	29.8
GSMDC2604Z	N	20	12	80	0.3	1	66	-	3.5	4.5	7	DFN3X3-8L	3870	340	52
GSM3620KA	N	30	12	0.78	0.5	1.2	0.446	-	450	650	-	SOT-723	72.9	7.4	2.6
GSM3620KX	N	30	12	0.6	0.5	1.2	0.31	-	500	700	-	SOT-523	72.9	7.4	2.6
GSM3616	N	30	12	1.8	0.5	1.2	0.275	35	46	-	-	SOT-323	241	15	7.4
GSM3612P	N	30	12	5.3	0.4	0.9	1.56	-	36	45	-	SOT-23	695	36	8.4
GSM3406AS	N	30	20	3.5	1	2.5	1.25	30	45	-	-	SOT-23	320	30	3
GSM3912P	N	30	20	6.5	1.2	2.5	1.56	24	34	-	-	SOT-23	345	32	4.1
GSM3912R	N	30	20	6.5	1.2	2.5	1.56	24	34	-	-	SOT-23-6L	345	32	4.1
GSMD53912	N	30	20	9	1.2	2	2.5	18	28	-	-	SOP-8	345	32	4.1
GSMD53908	N	30	20	15	1.2	2.5	4	9	13	-	-	SOP-8	750	110	7.5
GSMD53906	N	30	20	20	1.2	2.5	5.4	6	9	-	-	SOP-8	1160	180	11.1
GSMD53904	N	30	20	30	1.2	2.5	7	4.2	6	-	-	SOP-8	2200	177	24
GSM3025S	N	30	12	22	0.6	1.1	40	32	36	42	-	TO-252-2L	320	30	3
GSM3912D	N	30	20	28	1.2	2.5	24.9	18	24	-	-	TO-252-2L	370	50	5.2
GSM3910D	N	30	20	45	1.2	2.5	33	12	18	-	-	TO-252-2L	620	60	7.4
GSMD53908	N	30	20	55	1	2.5	40	9	13	-	-	TO-252-2L	750	110	7.5
GSMD53906	N	30	20	80	1	2.5	54	6	9	-	-	TO-252-2L	1160	180	11.1
GSM3080D	N	30	20	86	1	2.5	83	5	9.5	-	-	TO-252-2L	1980	240	45
GSMD53094	N	30	20	90	1.2	2.5	88	4	6	-	-	TO-252-2L	2200	177	24

N-Channel

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _D 25°C (W)	RDS _{ON} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
GSMDC3912Z	N	30	20	25	1.2	2.5	21	18	28	-	-	DFN3X3-8L	345	32	4.1
GSM3910Z	N	30	20	35	1.2	2.5	27	12	18	-	-	DFN3X3-8L	620	60	7.4
GSMDC3908Z	N	30	20	48	1.2	2.5	35	7.8	12	-	-	DFN3X3-8L	850	78	7.5
GSMDC3906Z	N	30	20	60	1.2	2.5	45	6	9	-	-	DFN3X3-8L	1210	100	11.1
GSMDC3904Z	N	30	20	80	1.2	2.5	66	3.8	5.5	-	-	DFN3X3-8L	2200	177	24
GSM3080Z	N	30	20	86	1	2.5	83	5	9.5	-	-	DFN3X3-8L	1980	240	45
GSM3910X	N	30	20	48	1.2	2.5	43	12	16	-	-	DFN5X6-8L	670	85	10.7
GSMDC3908X	N	30	20	60	1.2	2.5	54	7.8	12	-	-	DFN5x6-8L	680	70	7.5
GSMDC3906X	N	30	20	80	1	2.5	74	5.5	8.5	-	-	DFN5x6-8L	1160	180	11.1
GSM3080X	N	30	20	86	1	2.5	83	5	9.5	-	-	DFN5X6-8L	1980	240	45
GSMDC3094X	N	30	20	90	1	2.5	115	4	5.5	-	-	DFN5x6-8L	2200	340	24
GSMDC3960X	N	30	20	165	1.2	2.5	135	2	2.7	-	-	DFN5x6-8L	4300	320	60
GSM4912	N	40	20	5	1.2	2.5	1.56	33	45	-	-	SOT-23	420	40	4.7
GSMDS4910	N	40	20	6.7	1.2	2.5	1.47	19	25	-	-	SOP-8	722	61	11.8
GSM49B4S	N	40	20	7.9	1	2.5	1.47	13.5	22	-	-	SOP-8	451	27	6.9
GSMDS4906	N	40	20	15	1.2	2.5	5.4	9	13	-	-	SOP-8	1220	55	12.2
GSM DP4904	N	40	20	100	1.2	2	121	5.5	7	-	-	TO-220	2410	152	25
GSM DP4960	N	40	20	150	1.2	2.5	166	3.8	5	-	-	TO-220	4940	170	44.4
GSM4912D	N	40	20	23	1.2	2.5	25	30	40	-	-	TO-252-2L	420	40	4.5
GSM4910D	N	40	20	34	1.2	2.5	33	17	23	-	-	TO-252-2L	722	61	11.8
GSMDD4906	N	40	20	50	1.2	2.5	54	8.5	12	-	-	TO-252-2L	1220	55	12.2
GSMDD4964	N	40	20	60	1.2	2.5	62	6.7	8.8	-	-	TO-252-2L	1540	115	16.2
GSMDD4904	N	40	20	80	1	2.5	88	5.5	7	-	-	TO-252-2L	2410	152	25
GSMDD4960	N	40	20	90	1.2	2.5	101	3.8	5	-	-	TO-252-2L	4940	425	44.4
GSMDC4906Z	N	40	20	35	1.2	2.5	44	9	13.5	-	-	DFN3X3-8L	1220	55	19.7
GSMDC4964Z	N	40	20	54	1.2	2.5	52	6.5	8.5	-	-	DFN3X3-8L	1540	115	36
GSM4904Z	N	40	20	70	1	2.5	52	5.5	7	-	-	DFN3X3-8L	2410	152	25
GSMDC4906X	N	40	20	70	1.2	2.5	72.3	8.5	12	-	-	DFN5X6-8L	1278	135	87
GSMDC4960X	N	40	20	100	1.2	2.5	135	2.8	3.5	-	-	DFN5X6-8L	4940	425	44.4
GSMBS5139W	N	60	20	0.2	0.85	1.45	0.225	1440	2250	4050	-	SOT-323	22.8	2.9	-

N-Channel

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _o 25°C (W)	RDS _{on} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
		typ.	typ.	typ.											
GSM855139	N	60	20	0.2	0.8	1.5	0.225	-	2500	4000	-	SOT-23	22.8	2.9	-
GSM7002Y	N	60	20	0.5	1	2	0.3	3000	4000	-	-	SOT-523	30	5	0.5
GSM7002SW	N	60	20	0.5	1	2	0.3	3000	4000	-	-	SOT-323	30	5	0.5
GSM7002K	N	60	20	0.5	1	2	1.25	2400	3000	-	-	SOT-23	30	5	0.5
GSM6912	N	60	20	3.2	1.2	2.5	1.56	75	90	-	-	SOT-23	500	16	9.3
GSM2308AP	N	60	20	6.1	1.2	2.5	1.56	85	100	-	-	SOT-23	500	16	9.3
GSMDL6912	N	60	20	5	1.2	2.5	1.79	90	100	-	-	SOT-223	500	16	9.3
GSMDL6910	N	60	20	6.8	1.2	2.5	4.5	60	70	-	-	SOT-223	835	40	14
GSMDS6906	N	60	20	6	1.2	2.5	1.47	21	24	-	-	SOP-8	1680	85	28
GSMDS6904	N	60	20	10	1.2	2.5	2.5	12	15	-	-	SOP-8	2100	80	39.2
GSMDD6912	N	60	20	11	1.2	2.5	25	90	100	-	-	TO-252-2L	500	16	9.3
GSM6908D	N	60	20	27	1.2	2.5	40	28	34	-	-	TO-252-2L	1180	52	16.4
GSMDD6966A	N	60	25	55	2	4	102	8.2	-	-	-	TO-252-2L	1690	90	26.9
GSM6964Z	N	60	20	35	1.2	2.5	46	15	19	-	-	DFN3X3-8L	1515	76	27
GSM6904Z	N	60	20	42	1.2	2.2	52	12	15	-	-	DFN3X3-8L	2100	80	39.2
GSMDC6906X	N	60	20	44	1.2	2.5	83	23	28	-	-	DFN5x6-8L	1680	85	28
GSMDC6904X	N	60	20	50	1.2	2.5	96	12	15	-	-	DFN5x6-8L	2100	80	39.2
GSMDC6902X	N	60	20	100	1	2.5	142	4.6	5.5	-	-	DFN5x6-8L	6805	195	58.2
GSM855123	N	100	20	0.17	0.8	2.8	0.225	6000	-	-	-	SOT-23	20	4	-
GSM0910P	N	100	20	2	1.2	2.5	1.56	200	210	-	-	SOT-23	820	20	13.4
GSM0954	N	100	20	3	1.2	2.5	1.56	350	360	-	-	SOT-89	480	14	5.8
GSMDL0910	N	100	20	3	1.2	2.5	1.78	185	195	-	-	SOT-223	820	20	13.4
GSM8412	N	100	20	3.6	1	2	2.8	300	310	-	-	SOT-223	200	13	2.8
GSM0906	N	100	20	6.5	1.2	2.5	9	95	110	-	-	SOT-223	1480	35	22
GSM0986S	N	100	20	6	1.2	2.5	2	19.5	27	-	-	SOP-8	690	6	12.5
GSMDS0966	N	100	20	10	1	3	10.4	18	38	-	-	SOP-8	1820	90	36.8
GSM0976S	N	100	20	12	1.2	2.5	5	9.2	14	-	-	SOP-8	2250	25	37.8
GSMDS0982	N	100	20	16	1	2.5	7.4	14.5	21	-	-	SOP-8	1640	4	27.8
GSM10N10	N	100	20	9	1	2.5	2	152	-	-	-	TO-252-2L	1077	32	25.5
GSMDD0906	N	100	20	15	1.2	2.5	50	90	100	-	-	TO-252-2L	1480	35	9.3

N-Channel

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _o 25°C (W)	RDS _{ON} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
GSMDD0904	N	100	20	25	1.2	2.5	73.5	55	60	-	-	TO-252-2L	2860	70	46
GSMDD0966	N	100	20	45	1	3	102	18	38	-	-	TO-252-2L	1820	90	36.8
GSMDC0956Z	N	100	20	10	1.2	2.5	29.8	115	120	-	-	DFN3X3-8L	1400	35	20
GSM0988Z	N	100	20	16	1	2.5	32.5	38	63	-	-	DFN3X3-8L	553	30	8
GSM0988X	N	100	20	20	1	2.5	50	38	63	-	-	DFN5X6-8L	553	30	8
GSM0964X	N	100	20	25	1	2.2	73.5	50	60	-	-	DFN5x6-8L	1290	40	20
GSMDC0966X	N	100	20	45	1	3	135	18	38	-	-	DFN5x6-8L	1820	90	36.8
GSM0976X	N	100	20	62	1	2.5	125	9.2	14	-	-	DFN5x6-8L	2250	25	37.8
GSMDP0966A	N	100	20	60	2	4	113	18	-	-	-	TO-220	1850	85	37.6
GSMDP0902	N	100	20	80	1	3	183	11	12.5	-	-	TO-220	5775	115	47.2
GSMDL02N15	N	150	20	1.4	2	4	1.56	480	520	-	-	SOT-223	350	26	8.1
GSM02N15	N	150	20	1.4	2	4	1.56	480	520	-	-	TSOP-6	350	26	8.1
GSMDS02N15	N	150	20	1.2	2	4	1.56	480	520	-	-	SOP-8	350	26	8.1
GSMDS04N15	N	150	25	4	2	4	2.5	65	85	-	-	SOP-8	1790	82	30
GSM25N15	N	150	25	25	2	4	83	65	80	-	-	TO-252-2L	1350	60	30
GSM35N15	N	150	25	35	2	4	114	46	-	-	-	TO-252-2L	1900	87	40
GSMDC30N15X	N	150	25	15	2	4	135	65	80	-	-	DFN5x6-8L	3000	160	45
GSM25N15X	N	150	20	25	2	4	101	51	-	-	-	DFN5X6-8L	1080	5.5	15
GSM03N20	N	200	30	3	3	5	1.78	850	-	-	-	SOT-223	266	55	4.8
GSMDD03N20	N	200	30	3	3	5	46	850	-	-	-	TO-252-2L	266	55	4.8
GSMDD10N20	N	200	25	8	2	4	50	400	-	-	-	TO-252-2L	500	16	10



P-Channel

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _o 25°C (W)	RDS _{on} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
													typ.	typ.	typ.
GSM1073K	P	20	12	0.45	-0.35	-1	0.27	-	650	900	1500	SOT-723	40	6.5	1.5
GSM2319Y	P	20	8	0.4	-0.3	-1	0.312	-	600	850	1200	SOT-523	40	6.5	1
GSM2319P	P	20	8	0.4	-0.3	-1	0.275	-	600	850	1200	SOT-323	40	6.5	1
GSM2301	P	20	10	2.8	-0.3	-1	1.56	-	130	190	260	SOT-23	150	23	2.5
GSM2313P	P	20	10	4.1	-0.4	-0.8	1.56	-	65	85	130	SOT-23	515	20	6.4
GSM3415	P	20	12	4.9	-0.4	-0.9	1.56	-	45	58	85	SOT-23	1050	135	10
GSM2309S	P	20	10	5.8	-0.3	-1	1.56	-	33	45	65	SOT-23	1440	115	16.1
GSM2307P	P	20	10	6.5	-0.3	-1	1.56	-	26	32	40	SOT-23-6L	1670	120	19.5
GSMD52305	P	20	10	11	-0.3	-1	2.5	-	16	22	28	SOP-8	2320	175	27
GSMD52603	P	20	12	14	-0.3	-1	2	-	8.5	12	17	SOP-8	4060	400	44.4
GSMDC2305Z	P	20	10	26	-0.3	-1	44	-	15	20	26	DFN3X3-8L	2320	175	27
GSM2603Z	P	20	12	60	-0.3	-1	62.5	-	8	11	16	DFN3X3-8L	4060	400	44.4
GSM3619KA	P	30	12	0.55	-0.5	-1.2	0.45	-	1000	1600	-	SOT-723	73.4	12.1	3.12
GSM3915	P	30	20	1.4	-1.2	-2.2	0.278	75	110	-	-	SOT-323	226	29	2.5
GSM3619K	P	30	12	0.9	-0.5	-1.2	1.56	-	950	1600	-	SOT-23	73.4	12.1	3.12
GSM3401S	P	30	12	4	-0.6	-1.1	1.25	65	80	105	-	SOT-23	450	55	10
GSM3611P	P	30	12	4.1	-0.4	-0.9	1.56	65	75	100	-	SOT-23	810	50	8
GSM3911P	P	30	20	4.1	-1.2	-2.2	1.56	55	85	-	-	SOT-23	560	40	5.1
GSM2309KP	P	30	25	3.8	-1.2	-2.2	1.56	75	130	-	-	SOT-23	460	30	4.2
GSM3909	P	30	20	5.1	-1.2	-2.2	1.56	32	46	-	-	SOT-23	757	88	8
GSM3909VP	P	30	20	5.1	-1.2	-2.2	1.56	32	46	-	-	SOT-23-6L	757	88	8
GSM3911	P	30	20	4.5	-1.2	-2.2	1.78	55	85	-	-	SOT-223	560	40	5.1
GSMD53911	P	30	20	5.5	-1	-2.5	2.1	50	80	-	-	SOP-8	560	40	5.1
GSMD53907	P	30	20	8	-1	-2.5	2.1	20	32	-	-	SOP-8	1250	90	11
GSM4435S	P	30	20	9	-1	-2	2.8	18	26	-	-	SOP-8	1600	300	20
GSMD53903	P	30	20	13	-1	-2.5	4.2	9.5	15	-	-	SOP-8	3300	280	35
GSM3983S	P	30	20	16	-1	-2.5	3.1	7.2	11.2	-	-	SOP-8	3875	380	65.8
GSM3911D	P	30	20	15	-1	-2.5	25	50	80	-	-	TO-252-2L	560	40	5.1
GSM3907D	P	30	20	35	-1	-2.5	40	20	32	-	-	TO-252-2L	1250	90	11
GSMDC3907Z	P	30	20	30	-1.2	-2.5	27	18	30	-	-	DFN3X3-8L	1250	90	11

P-Channel

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _D 25°C (W)	RDS _{ON} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
GSMDC3903Z	P	30	20	50	-1.2	-2.5	59	8.5	14	-	-	DFN3X3-8L	3300	280	35
GSM3903X	P	30	20	60	-1.2	-2.5	96	8.5	14	-	-	DFN5X6-8L	3300	280	35
GSM3901X	P	30	20	100	-1.2	-2.2	138	3.3	5	-	-	DFN5X6-8L	7930	505	146
GSM4911P	P	40	20	2.9	-1	-2.5	1	68	100	-	-	SOT-23	600	43	6.4
GSMDS4903	P	40	20	10	-1	-2.5	4.2	15	22	-	-	SOP-8	2757	137	22.2
GSMDP4903	P	40	20	55	-1.2	-2.5	125	15	22	-	-	TO-220	2757	137	22.2
GSM4909D	P	40	20	16	-1.2	-2.5	32.9	45	68	-	-	TO-252-2L	825	50	8.2
GSM4943D	P	40	20	22	-1.2	-2.5	34.7	40	65	-	-	TO-252-2L	1076	64	7.6
GSMDD4963	P	40	20	45	-1.2	-2.5	62	17	22	-	-	TO-252-2L	2260	130	19
GSMDC4903Z	P	40	20	38	-1	-2.5	52	14	21	-	-	DFN3X3-8L	2757	137	22.2
GSMDC4959X	P	40	20	85	-1.2	-2.5	135	5.8	8.5	-	-	DFN5X6-8L	5720	352	106
GSMBS584V	P	60	20	0.13	-0.8	-2.5	0.225	-	10000	-	-	SOT-323	30	5	-
GSMBS584	P	60	20	0.13	-0.8	-2.5	0.225	-	10000	-	-	SOT-23	30	5	-
GSM6911P	P	60	20	3.1	-1.2	-2.5	1.56	190	240	-	-	SOT-23	425	20	8.2
GSM6909	P	60	20	3.2	-1	-2.5	2.02	105	140	-	-	SOT-223	785	112	10
GSM6903S	P	60	20	8.5	-1	-2.5	4.1	30	40	-	-	SOP-8	2595	115	43.8
GSMDD6911	P	60	20	7	-1.2	-2.5	15.6	180	220	-	-	TO-252-2L	425	20	8.2
GSMDD6905	P	60	20	16	-1.2	-2.2	25	48	65	-	-	TO-252-2L	1250	65	22.4
GSMDD6965A	P	60	20	50	-2	-4	102	22	40	-	-	TO-252-2L	2165	102	37.2
GSMDD6901	P	60	20	70	-1.2	-2.5	133	9.2	12	-	-	TO-252-2L	8620	288	141
GSM6907Z	P	60	20	12	-1.2	-2.2	33.8	68	85	-	-	DFN3X3-8L	870	42	16.4
GSM6901X	P	60	20	72	-1.2	-2.5	142	8.6	12	-	-	DFN5X6-8L	8620	288	141
GSM0903S	P	100	20	2.9	-1.2	-2.5	1.47	90	100	-	-	SOP-8	2750	58	42
GSMDD0903	P	100	20	10	-1	-3	88	140	170	-	-	TO-252-2L	2250	90	40.4
GSM0905D	P	100	20	18	-1.2	-2.2	73.5	95	110	-	-	TO-252-2L	2250	90	40.4
GSM0959D	P	100	20	30	-1.2	-2.5	102	45	55	-	-	TO-252-2L	6315	50	98
GSM0953	P	100	20	0.84	-1.2	-2.5	1.56	650	760	-	-	SOT-23	382	18	4.4
GSM02P15J	P	150	20	1	-2	-4	1.56	800	650	-	-	SOT-23	430	28	4.4
GSM02P15T	P	150	20	1	-2	-4	1.56	650	700	-	-	TSOP-6	430	28	4.4

Dual Enhancement Mode

GS P/N	Type	VDS (V)	VGS (±V)	ID (A)	V _{th} (V)		P _o 25°C (W)	RDS _{on} (mΩ)				Package	Ciss (pF)	Crss (pF)	Qg (nC)
					min.	max.		10V	4.5V	2.5V	1.8V				
								max.	max.	max.	max.				
GSM2220Y	N/N	20	8	0.8	0.3	-1	0.312	-	300	400	550	SOT-563	38.2	6	1
GSM2219Y	P/P	20	8	0.4	-0.3	-1	0.312	-	600	850	1200	SOT-563	40	6.5	1
GSM2120Y	N/P	20	12	0.8/0.4	0.3/-0.3	1/-1	0.312	-	300/600	400/850	550/1200	SOT-563	38.2/40	6/6.5	1/1
GSM1912	N/N	20	12	1.8	0.4	1	0.3	-	280	340	580	SOT-363	70	8	1.06
GSMBS5139T	N/N	60	20	0.2	0.85	1.45	0.225	1440	2250	4050	-	SOT-363	22.8	2.9	-
GSM7002T	N/N	60	20	0.64	1	2.5	1.35	2000	4000	-	-	SOT-363	32	6	1
GSM2219K	P/P	20	8	0.54	-0.3	-1	0.278	-	600	850	1200	SOT-363	40	6.5	1
GSMBS584T	P/P	60	20	0.13	-0.8	-2.5	0.225	-	10000	-	-	SOT-363	30	5	-
GSM6332	N/P	20	12	1/1	0.4/-0.4	1/-1	0.3	-	280/600	340/840	580/1440	SOT-363	70/70	8/10	1.06/1
GSM2120P	N/P	20	8	0.8/0.4	0.3/-0.3	1/-1	0.275	-	300/600	400/850	550/1200	SOT-363	38.2/40	6/6.5	1/1
GSM2218R	N/N	20	10	3.6	0.3	1	1.25	-	53	75	110	SOT-23-6L	180	26	3.6
GSM6601	N/P	30	12	3.8/2.5	0.4/-0.4	1.2/-1.2	1.3	55/115	65/145	85/200	-	TSOP-6	662/710	45/57	8.4/8.1
GSM6604	N/P	20	12	3.5/3	0.3/-0.5	0.8/-1	2	-	52/105	62/150	-	TSOP-6	340/415	33/87	4.2/5.8
GSM3816S	N/N	30	20	5.3	1	2.2	1.47	32	52	-	-	SOP-8	245	78	3.1
GSMDS3810	N/N	30	20	10	1.2	2.5	2.1	13	18	-	-	SOP-8	620	60	7.4
GSMDS6808	N/N	60	20	10	1.2	2.5	2.1	34	44	-	-	SOP-8	1180	45	16.6
GSMDS3807	P/P	30	20	7	-1.2	-2.5	2.1	23	36	-	-	SOP-8	1250	90	11
GSM3712S	N/P	30	20	8/5.5	1.2/-1.2	2.5/-2.5	2.5	20/50	30/90	-	-	SOP-8	345/560	32/40	4.1/5.1
GSMDS3710	N/P	30	20	10/6.5	1.2/-1	2.5/-2.5	5	13/28	18/42	-	-	SOP-8	620/757	60/88	7.4/8
GSM4701S	N/P	40	20	6.7/7.2	1/-1	2.5/-2.5	2.5	32/40	45/60	-	-	SOP-8	420/1050	40/80	2.8/8
GSM6701S	N/P	60	20	5.9/4.7	1.2/-1.2	2.5/-2.5	2.01	30/48	36/68	-	-	SOP-8	1180/1250	45/65	16.6/22.4
GSM0744S	N/P	100	20	2.1/1.7	1.2/-1.2	2.5/-2.5	1.47	155/290	170/340	-	-	SOP-8	1034/783	20/22	14/10.9
GSMDEW2210	N/N	20	10	7.5	0.3	1	1.25	-	12	14	20	TSSOP-8	1020	110	16.9
GSMDEW2206	N/N	20	10	10	0.3	1	1.25	-	8.5	9.5	11	TSSOP-8	1920	180	29.8
GSMDB2116S	N/P	20	10	5/4.7	0.3/-0.3	1/-1	1.56	-	40/95	55/125	70/161	DFN2x2-6L	315/350	40/50	5.8/4.8
GSMEB2516Q	N/N	20	12	11	0.5	1.5	1.56	-	8.2	11	-	DFN2X3-6L	1350	160	15
GSMDC2116M	N/P	20	10	3.8/2.5	0.3/-0.3	1/-1	1.56	-	40/100	55/140	70/230	DFN2X3-8L	315/350	40/50	5.8/4.8
GSMDEC2210V	N/N	20	10	30	0.3	1	2	-	12	14	20	DFN3X3-8L	1020	110	16.9
GSMDC3812V	N/N	30	20	20	1.2	2.5	20	20	30	-	-	DFN3X3-8L	345	32	4.1
GSMDC2209V	P/P	20	10	7.5	-0.3	-1	2.5	-	33	45	65	DFN3X3-8L	1440	115	16.1
GSMDC3801R	N/N	30	20	55/80	1	2.5	40/54	9/6	13/9	-	-	DFN5X6-8L	750/1160	110/180	7.5/11.1

Standard Rectifiers

Product	VRRM	IFAV	IFSM	VF @ IF Max		IR @ VDC Max		Package
	V	A	A	V	A	µA	V	
GSDS1A	50	1	30	1.1	1	5	50	SMA
GSDS1B	100	1	30	1.1	1	5	100	SMA
GSDS1D	200	1	30	1.1	1	5	200	SMA
GSDS1G	400	1	30	1.1	1	5	400	SMA
GSDS1J	600	1	30	1.1	1	5	600	SMA
GSDS1K	800	1	30	1.1	1	5	800	SMA
GSDS1M	1000	1	30	1.1	1	5	1000	SMA

Super-Fast Rectifiers

Product	VRRM	IFAV	IFSM	TRR	VF @ IF Max		IR @ VDC Max		Package
	V	A	A	ns	V	A	µA	V	
GSDES1A	50	1	30	35	0.95	1	5	50	SMA
GSDES1B	100	1	30	35	0.95	1	5	100	SMA
GSDES1D	200	1	30	35	0.95	1	5	200	SMA
GSDES1G	400	1	30	35	1.25	1	5	400	SMA
GSDES1J	600	1	30	35	1.7	1	5	600	SMA
GSDES1K	800	1	30	35	2.2	1	5	800	SMA



Small Signal Switching Diodes

Product	VRRM	IFAV	P _o	TRR	VF @ IF Max		IR @ VR Max		Package
	V	A	mW	ns	V	A	μA	V	
GSDBAS16	85	0.215	350	4	1.25	0.15	1	75	SOT-23
GSDBAV99	70	0.2	225	6	1.25	0.15	2.5	70	SOT-23
GSDBAV70	75	0.2	350	4	1.25	0.15	2.5	75	SOT-23
GSDBAW56	75	0.215	350	4	1.25	0.15	1	75	SOT-23
GSDBAS21A	250	0.4	350	50	1.25	0.2	100	200	SOT-23
GSDBAS21C	250	0.4	350	50	1.25	0.2	100	200	SOT-23
GSDBAS21S	250	0.4	350	50	1.25	0.2	100	200	SOT-23
GSD1N4148WT	75	0.15	200	4	1	0.01	5	75	SOD-523
GSD1N4448WT	75	0.15	200	4	0.72	0.005	5	75	SOD-523
GSD1SS400	100	0.2	200	4	1.2	0.1	0.1	80	SOD-523
GSD1N4148WS	75	0.15	200	4	1	0.01	5	75	SOD-323
GSD1N4448WS	75	0.15	200	4	0.72	0.005	5	75	SOD-323
GSDBAV19WS	120	0.2	200	50	1.25	0.2	0.1	100	SOD-323
GSDBAV20WS	200	0.2	200	50	1.25	0.2	0.1	150	SOD-323
GSDBAV21WS	250	0.2	200	50	1.25	0.2	0.1	200	SOD-323
GSD1N4148W	75	0.15	400	4	1	0.01	5	75	SOD-123
GSD1N4448W	75	0.15	400	4	0.72	0.005	5	75	SOD-123
GSDBAV19W	120	0.2	400	50	1.25	0.2	0.1	100	SOD-123
GSDBAV20W	200	0.2	400	50	1.25	0.2	0.1	150	SOD-123
GSDBAV21W	250	0.2	400	50	1.25	0.2	0.1	200	SOD-123

Schottky Rectifiers

Product	VRRM	IFAV	IFSM	VF @ IF Max		IR @ VR Max		Package
	V	A	A	V	A	μA	V	
GSDSBAT54	30	0.2	0.6	1	0.1	2	25	SOT-23
GSDSBAT54A	30	0.2	0.6	1	0.1	2	25	SOT-23
GSDSBAT54S	30	0.2	0.6	1	0.1	2	25	SOT-23
GSDSBAT54C	30	0.2	0.6	1	0.1	2	25	SOT-23
GSDSRB751S-40	40	0.03	0.2	0.37	0.001	0.5	30	SOD-523
GSDSBAT42XV2	30	0.2	4	1	0.2	0.5	25	SOD-523
GSDSBAT43XV2	30	0.2	4	1	0.2	0.5	25	SOD-523
GSDSBAT54XV2	30	0.2	4	0.8	0.1	2	25	SOD-523
GSDSRB521S-30	30	0.2	1	0.5	0.2	30	10	SOD-523
GSDSRB520S-40	40	0.2	1	0.6	0.2	1	10	SOD-523
GSDSRB751V-40	40	0.03	0.2	0.37	0.001	0.5	30	SOD-323
GSDSRB501V-40	40	0.1	1	0.55	0.1	30	10	SOD-323
GSDS103CWS	20	0.2	2	0.6	0.2	5	10	SOD-323
GSDS103BWS	30	0.2	2	0.6	0.2	5	20	SOD-323
GSDS103AWS	40	0.2	2	0.6	0.2	5	30	SOD-323
GSDSBAT42WS	30	0.2	4	1	0.2	0.5	25	SOD-323
GSDSBAT43WS	30	0.2	4	1	0.2	0.5	25	SOD-323
GSDSBAT54WS	30	0.2	4	0.8	0.1	2	25	SOD-323
GSDSRB51V-30	30	0.5	5	0.47	0.5	100	20	SOD-323
GSDSB5819WS	40	1	9	0.6	1	1000	40	SOD-323
GSDS103CW	20	0.2	2	0.6	0.2	5	10	SOD-123
GSDS103BW	30	0.2	2	0.6	0.2	5	20	SOD-123
GSDS103AW	40	0.2	2	0.6	0.2	5	30	SOD-123
GSDSBAT42W	30	0.2	4	1	0.2	0.5	25	SOD-123

Schottky Rectifiers

Product	VRRM	IFAV	IFSM	VF @ IF Max		IR @ VR Max		Package
	V	A	A	V	A	μA	V	
GSDSBAT43W	30	0.2	4	1	0.2	0.5	25	SOD-123
GSDSBAT54W	30	0.2	4	0.8	0.1	2	25	SOD-123
GSDSBAT46W	100	0.15	0.75	1	0.25	20	75	SOD-123
GSDSB5819W	40	1	9	0.6	1	1000	40	SOD-123
GSDSS12FL	20	1	25	0.55	1	100	20	SOD-123
GSDSS13FL	30	1	25	0.55	1	100	30	SOD-123
GSDSS14FL	40	1	25	0.55	1	100	40	SOD-123
GSDSS16FL	60	1	25	0.75	1	100	60	SOD-123
GSDSS18FL	80	1	25	0.85	1	100	80	SOD-123
GSDSS110FL	100	1	25	0.85	1	100	100	SOD-123
GSDSS115FL	150	1	25	0.95	1	100	150	SOD-123
GSDSS120FL	200	1	25	0.95	1	100	200	SOD-123
GSDSS22FL	20	2	25	0.55	2	100	20	SOD-123
GSDSS24FL	40	2	25	0.55	2	100	40	SOD-123
GSDSS26FL	60	2	25	0.75	2	100	60	SOD-123
GSDSS210FL	100	2	25	0.85	2	100	100	SOD-123
GSDSS215FL	150	2	25	0.95	2	100	150	SOD-123
GSDSS220FL	200	2	25	0.95	2	100	200	SOD-123
GSDSS12W	20	1	30	0.45	1	500	20	SMA
GSDSS13W	30	1	30	0.55	1	500	30	SMA
GSDSS14W	40	1	30	0.55	1	500	40	SMA
GSDSS15W	50	1	30	0.7	1	500	50	SMA
GSDSS16W	60	1	30	0.7	1	500	60	SMA
GSDSS18W	80	1	30	0.85	1	100	80	SMA

Schottky Rectifiers

Product	VRRM	IFAV	IFSM	VF @ IF Max		IR @ VR Max		Package
	V	A	A	V	A	μA	V	
GSDSS110W	100	1	30	0.85	1	100	100	SMA
GSDSS115W	150	1	30	0.95	1	100	150	SMA
GSDSS120W	200	1	30	0.95	1	100	200	SMA
GSDSK22A	20	2	50	0.5	2	500	20	SMA
GSDSK23A	30	2	50	0.55	2	500	30	SMA
GSDSK24A	40	2	50	0.55	2	500	40	SMA
GSDSK25A	50	2	50	0.75	2	500	50	SMA
GSDSK26A	60	2	50	0.75	2	500	60	SMA
GSDSK28A	80	2	50	0.85	2	500	80	SMA
GSDSK210A	100	2	50	0.85	2	500	100	SMA
GSDSK215A	150	2	50	0.95	2	500	150	SMA
GSDSK220A	200	2	50	0.95	2	500	200	SMA
GSDSK32A	20	3	80	0.5	3	500	20	SMAF
GSDSK33A	30	3	80	0.5	3	500	30	SMAF
GSDSK34A	40	3	80	0.5	3	500	40	SMAF
GSDSK35A	50	3	80	0.75	3	500	50	SMAF
GSDSK36A	60	3	80	0.75	3	500	60	SMAF
GSDSK38A	80	3	80	0.85	3	500	80	SMAF
GSDSK310A	100	3	80	0.85	3	500	100	SMAF
GSDSK315A	150	3	80	0.95	3	500	150	SMAF
GSDSK320A	200	3	80	0.95	3	500	200	SMAF
GSDSK22B	20	2	50	0.5	2	500	20	SMB
GSDSK23B	30	2	50	0.55	2	500	30	SMB
GSDSK24B	40	2	50	0.55	2	500	40	SMB

Schottky Rectifiers

Product	VRRM	IFAV	IFSM	VF @ IF Max		IR @ VR Max		Package
	V	A	A	V	A	μA	V	
GSDSK25B	50	2	50	0.75	2	500	50	SMB
GSDSK26B	60	2	50	0.75	2	500	60	SMB
GSDSK28B	80	2	50	0.85	2	500	80	SMB
GSDSK210B	100	2	50	0.85	2	500	100	SMB
GSDSK215B	150	2	50	0.95	2	500	150	SMB
GSDSK220B	200	2	50	0.95	2	500	200	SMB
GSDSK32B	20	3	100	0.5	3	500	20	SMB
GSDSK33B	30	3	100	0.55	3	500	30	SMB
GSDSK34B	40	3	100	0.55	3	500	40	SMB
GSDSK35B	50	3	100	0.75	3	500	50	SMB
GSDSK36B	60	3	100	0.75	3	500	60	SMB
GSDSK38B	80	3	100	0.85	3	500	80	SMB
GSDSK310B	100	3	100	0.85	3	500	100	SMB
GSDSK315B	150	3	100	0.95	3	500	150	SMB
GSDSK320B	200	3	100	0.95	3	500	200	SMB
GSDSK32C	20	3	80	0.55	3	500	20	SMC
GSDSK33C	30	3	80	0.55	3	500	30	SMC
GSDSK34C	40	3	80	0.55	3	500	40	SMC
GSDSK35C	50	3	80	0.75	3	500	50	SMC
GSDSK36C	60	3	80	0.75	3	500	60	SMC
GSDSK38C	80	3	80	0.85	3	500	80	SMC
GSDSK39C	90	3	80	0.85	3	500	90	SMC
GSDSK310C	100	3	80	0.85	3	500	100	SMC
GSDSK315C	150	3	80	0.95	3	500	150	SMC

BJT

Product	Type	VCBO	VCEO	IC(mA)	PD(mW)	Hfe			VCE(sat)			Ft	Package
		Max	Max	Max	Max	Min-Max	IC	VCE	Max	IC	IB	Min	
		V	V	mA	mW	-	mA	V	V	mA	mA	MHZ	
GSTMMBT2222A	NPN	75	40	600	225	100-300	150	10	0.3	150	15	300	SOT-23
GSTMMBT3904	NPN	60	40	200	225	100-300	10	1	0.3	50	5	300	SOT-23
GSTMMBT3906	PNP	40	40	200	225	100-300	10	1	0.4	50	5	250	SOT-23
GSTMMBT2907A	PNP	60	60	600	225	100-300	150	10	0.4	150	15	200	SOT-23
GSTMMBT3904W	NPN	60	40	200	150	100-300	10	1	0.3	50	5	300	SOT-323
GSTMMBT3906W	PNP	40	40	200	150	100-300	10	1	0.4	50	5	250	SOT-323



ESD Protection

Product	CH	VBR (Min)	VRWM (Max)	IR (Max)	PPK (8/20 μ s)	IPP (8/20 μ s)	Cj (TYP)	Package
		V	V	μ A	W	A	pF	
GSE0520Q	1	6	5	1	20	1	0.3	DFN1006-2
GSE0524C	4	6	5	1	120	5	0.3	SOT-23-6L
GSE0524R	4	6	5	1	50	4.5	0.3	DFN-10
GSE6V8UD	4	6	5	1	180	7	0.35	DFN-10
GSE8L50C	1	5.4	5	1	120	5	0.5	SOD-882
GSE5Z5VU	1	6	5	1	250	7	0.5	SOD-523

Zener SOT-23

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V_z (V)			Z_{zr} @ I_{zr} Max		Z_{zk} @ I_{zk} Max		I_{rs} @ V_r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	μ A	V		
GSDZBZX84C2V4	2.2	2.4	2.6	100	5	600	1	50	1	300	SOT-23
GSDZBZX84C2V7	2.5	2.7	2.9	100	5	600	1	20	1	300	SOT-23
GSDZBZX84C3V0	2.8	3	3.2	95	5	600	1	10	1	300	SOT-23
GSDZBZX84C3V3	3.1	3.3	3.5	95	5	600	1	5	1	300	SOT-23
GSDZBZX84C3V6	3.4	3.6	3.8	90	5	600	1	5	1	300	SOT-23
GSDZBZX84C3V9	3.7	3.9	4.1	90	5	600	1	3	1	300	SOT-23
GSDZBZX84C4V3	4	4.3	4.6	90	5	600	1	3	1	300	SOT-23
GSDZBZX84C4V7	4.4	4.7	5	80	5	500	1	3	2	300	SOT-23
GSDZBZX84C5V1	4.8	5.1	5.4	60	5	480	1	2	2	300	SOT-23
GSDZBZX84C5V6	5.2	5.6	6	40	5	400	1	1	2	300	SOT-23
GSDZBZX84C6V2	5.8	6.2	6.6	10	5	150	1	3	4	300	SOT-23
GSDZBZX84C6V8	6.4	6.8	7.2	15	5	80	1	2	4	300	SOT-23
GSDZBZX84C7V5	7	7.5	7.9	15	5	80	1	1	5	300	SOT-23
GSDZBZX84C8V2	7.7	8.2	8.7	15	5	80	1	0.7	5	300	SOT-23

Zener SOT-23

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z ₂₁ @ I _{Z1} Max		Z ₂₅ @ I _{Z5} Max		I _L @ V _Z Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZBZX84C9V1	8.5	9.1	9.6	15	5	100	1	0.5	6	300	SOT-23
GSDZBZX84C10	9.4	10	10.6	20	5	150	1	0.2	7	300	SOT-23
GSDZBZX84C11	10.4	11	11.6	20	5	150	1	0.1	8	300	SOT-23
GSDZBZX84C12	11.4	12	12.7	25	5	150	1	0.1	8	300	SOT-23
GSDZBZX84C13	12.4	13	14.1	30	5	170	1	0.1	8	300	SOT-23
GSDZBZX84C15	13.8	15	15.6	30	5	200	1	0.05	10.5	300	SOT-23
GSDZBZX84C16	15.3	16	17.1	40	5	200	1	0.05	11.2	300	SOT-23
GSDZBZX84C18	16.8	18	19.1	45	5	225	1	0.05	12.6	300	SOT-23
GSDZBZX84C20	18.8	20	21.2	55	5	225	1	0.05	14	300	SOT-23
GSDZBZX84C22	20.8	22	23.3	55	5	250	1	0.05	15.4	300	SOT-23
GSDZBZX84C24	22.8	24	25.6	70	5	250	1	0.05	16.8	300	SOT-23
GSDZBZX84C27	25.1	27	28.9	80	2	300	0.5	0.05	18.9	300	SOT-23
GSDZBZX84C30	28	30	32	80	2	300	0.5	0.05	21	300	SOT-23
GSDZBZX84C33	31	33	35	80	2	325	0.5	0.05	23	300	SOT-23
GSDZBZX84C36	34	36	38	90	2	350	0.5	0.05	25.2	300	SOT-23
GSDZBZX84C39	37	39	41	130	2	350	0.5	0.05	27.3	300	SOT-23
GSDZBZX84C43	40	43	46	150	2	375	0.5	0.05	30.1	300	SOT-23
GSDZBZX84C47	44	47	50	170	2	375	0.5	0.05	32.9	300	SOT-23
GSDZBZX84C51	48	51	54	180	2	400	0.5	0.05	35.7	300	SOT-23



Zener SMA

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z ₂₇ @ I _{Z7} Max		Z _{2k} @ I _{Zk} Max		I _{Lk} @ V _R Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZSMAZ5V1	4.84	5.1	5.4	5	100	500	1	2.5	1	1000	SMA
GSDZSMAZ5V6	5.32	5.6	5.88	2	100	250	2	5	2	1000	SMA
GSDZSMAZ6V2	5.89	6.2	6.51	2	100	200	2	5	3	1000	SMA
GSDZSMAZ6V8	6.46	6.8	7.14	2	100	200	1	5	4	1000	SMA
GSDZSMAZ7V5	7.13	7.5	7.88	2	100	450	1	5	5	1000	SMA
GSDZSMAZ8V2	7.79	8.2	8.61	2	100	200	1	5	6	1000	SMA
GSDZSMAZ9V1	8.65	9.1	9.56	4	50	200	1	5	7	1000	SMA
GSDZSMAZ10	9.5	10	10.5	4	50	200	1	1	7.6	1000	SMA
GSDZSMAZ12	11.4	12	12.6	7	50	150	1	1	9.1	1000	SMA
GSDZSMAZ15	14.25	15	15.75	10	50	150	1	1	11.4	1000	SMA
GSDZSMAZ16	15.2	16	16.8	15	25	150	1	0.5	12.2	1000	SMA
GSDZSMAZ18	17.1	18	18.9	15	25	150	1	0.5	13.7	1000	SMA
GSDZSMAZ20	19	20	21	15	25	180	1	0.5	15.2	1000	SMA
GSDZSMAZ22	20.9	22	23.1	15	25	180	1	0.5	16.7	1000	SMA
GSDZSMAZ24	22.8	24	25.2	15	25	180	1	0.5	18.2	1000	SMA
GSDZSMAZ27	25.65	27	28.35	15	25	200	1	0.5	20.5	1000	SMA
GSDZSMAZ30	28.5	30	31.5	15	25	250	1	0.5	22.8	1000	SMA
GSDZSMAZ33	31.35	33	34.65	15	25	300	1	0.5	25.1	1000	SMA
GSDZSMAZ36	34.2	36	37.8	40	10	350	1	0.5	27.4	1000	SMA
GSDZSMAZ39	37.05	39	40.95	40	10	450	1	0.5	29.6	1000	SMA



Zener SOD-123

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z ₀₁ @ I _{Z1} Max		Z ₀₅ @ I _{Z5} Max		I _r @ V _r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZMMSZ2V0CW	1.9	2	2.1	100	5	564	1	120	0.5	500	SOD-123
GSDZMMSZ2V2CW	2.09	2.2	2.31	100	5	564	1	120	0.7	500	SOD-123
GSDZMMSZ2V4CW	2.28	2.4	2.52	100	5	564	1	45	1	500	SOD-123
GSDZMMSZ2V7CW	2.57	2.7	2.84	100	5	564	1	18	1	500	SOD-123
GSDZMMSZ3V0CW	2.85	3	3.15	100	5	564	1	9	1	500	SOD-123
GSDZMMSZ3V3CW	3.14	3.3	3.47	95	5	564	1	4.5	1	500	SOD-123
GSDZMMSZ3V6CW	3.42	3.6	3.78	90	5	564	1	4.5	1	500	SOD-123
GSDZMMSZ3V9CW	3.71	3.9	4.1	90	5	564	1	2.7	1	500	SOD-123
GSDZMMSZ4V3CW	4.09	4.3	4.52	90	5	564	1	2.7	1	500	SOD-123
GSDZMMSZ4V7CW	4.47	4.7	4.94	80	5	470	1	2.7	2	500	SOD-123
GSDZMMSZ5V1CW	4.85	5.1	5.36	60	5	451	1	1.8	2	500	SOD-123
GSDZMMSZ5V6CW	5.32	5.6	5.88	40	5	376	1	0.9	2	500	SOD-123
GSDZMMSZ6V2CW	5.89	6.2	6.51	10	5	141	1	2.7	4	500	SOD-123
GSDZMMSZ6V8CW	6.46	6.8	7.14	15	5	75	1	1.8	4	500	SOD-123
GSDZMMSZ7V5CW	7.11	7.5	7.86	15	5	75	1	0.9	5	500	SOD-123
GSDZMMSZ8V2CW	7.79	8.2	8.61	15	5	75	1	0.63	5	500	SOD-123
GSDZMMSZ9V1CW	8.65	9.1	9.56	15	5	94	1	0.45	6	500	SOD-123
GSDZMMSZ10VCW	9.5	10	10.5	20	5	141	1	0.18	7	500	SOD-123
GSDZMMSZ11VCW	10.45	11	11.55	20	5	141	1	0.09	8	500	SOD-123
GSDZMMSZ12VCW	11.4	12	12.6	25	5	141	1	0.09	8	500	SOD-123
GSDZMMSZ13VCW	12.35	13	13.65	30	5	160	1	0.09	8	500	SOD-123
GSDZMMSZ15VCW	14.25	15	15.75	30	5	188	1	0.045	10.5	500	SOD-123
GSDZMMSZ16VCW	15.2	16	16.8	40	5	188	1	0.045	11.2	500	SOD-123
GSDZMMSZ18VCW	17.1	18	18.9	45	5	212	1	0.045	12.6	500	SOD-123
GSDZMMSZ20VCW	19	20	21	55	5	212	1	0.045	14	500	SOD-123
GSDZMMSZ22VCW	20.9	22	23.1	55	5	235	1	0.045	15.4	500	SOD-123

Zener SOD-123

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z _{z1} @ I _{z1} Max		Z _{z2} @ I _{z2} Max		I _{rk} @ V _r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZMMSZ24VCW	22.8	24	25.2	70	5	235	1	0.045	16.8	500	SOD-123
GSDZMMSZ27VCW	25.65	27	28.35	80	2	282	0.5	0.045	18.9	500	SOD-123
GSDZMMSZ30VCW	28.5	30	31.5	80	2	282	0.5	0.045	21	500	SOD-123
GSDZMMSZ33VCW	31.35	33	34.65	80	2	306	0.5	0.045	23	500	SOD-123
GSDZMMSZ36VCW	34.2	36	37.8	90	2	329	0.5	0.045	25.2	500	SOD-123
GSDZMMSZ39VCW	37.05	39	40.95	130	2	329	0.5	0.045	27.3	500	SOD-123
GSDZMMSZ43VCW	40.85	43	45.15	150	2	353	0.5	0.045	30.1	500	SOD-123
GSDZMMSZ47VCW	44.65	47	49.35	170	2	353	0.5	0.045	33	500	SOD-123
GSDZMMSZ51VCW	48.45	51	53.55	180	2	376	0.5	0.045	35.7	500	SOD-123
GSDZMMSZ56VCW	53.2	56	58.8	200	2	400	0.5	0.045	39.2	500	SOD-123
GSDZMMSZ62VCW	58.9	62	65.1	215	2	423	0.5	0.045	43.4	500	SOD-123
GSDZMMSZ68VCW	64.6	68	71.4	240	2	447	0.5	0.045	47.6	500	SOD-123
GSDZMMSZ75VCW	71.25	75	78.75	255	2	470	0.5	0.045	52.5	500	SOD-123

Zener SOD-323

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z _{z1} @ I _{z1} Max		Z _{z2} @ I _{z2} Max		I _{rk} @ V _r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZMM3Z2V0CW	1.9	2	2.1	100	5	564	1	120	0.5	200	SOD-323
GSDZMM3Z2V2CW	2.09	2.2	2.31	100	5	564	1	120	0.7	200	SOD-323
GSDZMM3Z2V4CW	2.28	2.4	2.52	100	5	564	1	45	1	200	SOD-323
GSDZMM3Z2V7CW	2.57	2.7	2.84	100	5	564	1	18	1	200	SOD-323
GSDZMM3Z3V0CW	2.85	3	3.15	100	5	564	1	9	1	200	SOD-323
GSDZMM3Z3V3CW	3.14	3.3	3.47	95	5	564	1	4.5	1	200	SOD-323
GSDZMM3Z3V6CW	3.42	3.6	3.78	90	5	564	1	4.5	1	200	SOD-323
GSDZMM3Z3V9CW	3.71	3.9	4.1	90	5	564	1	2.7	1	200	SOD-323

Zener SOD-323

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z ₀₁ @ I _{Z1} Max		Z ₀₅ @ I _{Z5} Max		I _L @ V _Z Max			
	Min	Nom	Max	Ω	mA	Ω	mA	μA	V		
GSDZMM3Z4V3CW	4.09	4.3	4.52	90	5	564	1	2.7	1	200	SOD-323
GSDZMM3Z4V7CW	4.47	4.7	4.94	80	5	470	1	2.7	2	200	SOD-323
GSDZMM3Z5V1CW	4.85	5.1	5.36	60	5	451	1	1.8	2	200	SOD-323
GSDZMM3Z5V6CW	5.32	5.6	5.88	40	5	376	1	0.9	2	200	SOD-323
GSDZMM3Z6V2CW	5.89	6.2	6.51	10	5	141	1	2.7	4	200	SOD-323
GSDZMM3Z6V8CW	6.46	6.8	7.14	15	5	75	1	1.8	4	200	SOD-323
GSDZMM3Z7V5CW	7.11	7.5	7.86	15	5	75	1	0.9	5	200	SOD-323
GSDZMM3Z8V2CW	7.79	8.2	8.61	15	5	75	1	0.63	5	200	SOD-323
GSDZMM3Z9V1CW	8.65	9.1	9.56	15	5	94	1	0.45	6	200	SOD-323
GSDZMM3Z10VCW	9.5	10	10.5	20	5	141	1	0.18	7	200	SOD-323
GSDZMM3Z11VCW	10.45	11	11.55	20	5	141	1	0.09	8	200	SOD-323
GSDZMM3Z12VCW	11.4	12	12.6	25	5	141	1	0.09	8	200	SOD-323
GSDZMM3Z13VCW	12.35	13	13.65	30	5	160	1	0.09	8	200	SOD-323
GSDZMM3Z15VCW	14.25	15	15.75	30	5	188	1	0.045	10.5	200	SOD-323
GSDZMM3Z16VCW	15.2	16	16.8	40	5	188	1	0.045	11.2	200	SOD-323
GSDZMM3Z18VCW	17.1	18	18.9	45	5	212	1	0.045	12.6	200	SOD-323
GSDZMM3Z20VCW	19	20	21	55	5	212	1	0.045	14	200	SOD-323
GSDZMM3Z22VCW	20.9	22	23.1	55	5	235	1	0.045	15.4	200	SOD-323
GSDZMM3Z24VCW	22.8	24	25.2	70	5	235	1	0.045	16.8	200	SOD-323
GSDZMM3Z27VCW	25.65	27	28.35	80	2	282	0.5	0.045	18.9	200	SOD-323
GSDZMM3Z30VCW	28.5	30	31.5	80	2	282	0.5	0.045	21	200	SOD-323
GSDZMM3Z33VCW	31.35	33	34.65	80	2	306	0.5	0.045	23	200	SOD-323
GSDZMM3Z36VCW	34.2	36	37.8	90	2	329	0.5	0.045	25.2	200	SOD-323
GSDZMM3Z39VCW	37.05	39	40.95	130	2	329	0.5	0.045	27.3	200	SOD-323
GSDZMM3Z43VCW	40.85	43	45.15	150	2	353	0.5	0.045	30.1	200	SOD-323
GSDZMM3Z47VCW	44.65	47	49.35	170	2	353	0.5	0.045	33	200	SOD-323

Zener SOD-323

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z _{zt} @ I _{zt} Max		Z _{zk} @ I _{zk} Max		I _{rk} @ V _r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZMM3Z51VCW	48.45	51	53.55	180	2	376	0.5	0.045	35.7	200	SOD-323
GSDZMM3Z56VCW	53.2	56	58.8	200	2	400	0.5	0.045	39.2	200	SOD-323
GSDZMM3Z62VCW	58.9	62	65.1	215	2	423	0.5	0.045	43.4	200	SOD-323
GSDZMM3Z68VCW	64.6	68	71.4	240	2	447	0.5	0.045	47.6	200	SOD-323
GSDZMM3Z75VCW	71.25	75	78.75	255	2	470	0.5	0.045	52.5	200	SOD-323

Zener SOD-523

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z _{zt} @ I _{zt} Max		Z _{zk} @ I _{zk} Max		I _{rk} @ V _r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZTCMM5Z2V0	1.9	2	2.1	100	5	564	1	120	0.5	200	SOD-523
GSDZTCMM5Z2V2	2.09	2.2	2.31	100	5	564	1	120	0.7	200	SOD-523
GSDZTCMM5Z2V4	2.2	2.4	2.6	100	5	1000	1	50	1	200	SOD-523
GSDZTCMM5Z2V7	2.5	2.7	2.9	100	5	1000	1	20	1	200	SOD-523
GSDZTCMM5Z3V0	2.8	3	3.2	100	5	1000	1	10	1	200	SOD-523
GSDZTCMM5Z3V3	3.1	3.3	3.5	95	5	1000	1	5	1	200	SOD-523
GSDZTCMM5Z3V6	3.4	3.6	3.8	90	5	1000	1	5	1	200	SOD-523
GSDZTCMM5Z3V9	3.7	3.9	4.1	90	5	1000	1	3	1	200	SOD-523
GSDZTCMM5Z4V3	4	4.3	4.6	90	5	1000	1	3	1	200	SOD-523
GSDZTCMM5Z4V7	4.4	4.7	5	80	5	800	1	3	2	200	SOD-523
GSDZTCMM5Z5V1	4.8	5.1	5.4	60	5	500	1	2	2	200	SOD-523
GSDZTCMM5Z5V6	5.2	5.6	6	40	5	200	1	1	2	200	SOD-523
GSDZTCMM5Z6V2	5.8	6.2	6.6	10	5	100	1	3	4	200	SOD-523
GSDZTCMM5Z6V8	6.4	6.8	7.2	15	5	160	1	2	4	200	SOD-523
GSDZTCMM5Z7V5	7	7.5	7.9	15	5	160	1	1	5	200	SOD-523
GSDZTCMM5Z8V2	7.7	8.2	8.7	15	5	160	1	0.7	5	200	SOD-523

Zener SOD-523

Product	Zener Voltage			Zener Impedance				Leakage Current		PD (mW)	Package
	V _Z (V)			Z ₀₁ @ I _{Z1} Max		Z ₀₅ @ I _{Z5} Max		I _r @ V _r Max			
	Min	Nom	Max	Ω	mA	Ω	mA	uA	V		
GSDZTCMM5Z9V1	8.5	9.1	9.6	15	5	160	1	0.2	7	200	SOD-523
GSDZTCMM5Z10V	9.4	10	10.6	20	5	160	1	0.1	8	200	SOD-523
GSDZTCMM5Z11V	10.4	11	11.6	20	5	160	1	0.1	8	200	SOD-523
GSDZTCMM5Z12V	11.4	12	12.7	25	5	80	1	0.1	8	200	SOD-523
GSDZTCMM5Z13V	12.4	13	14.1	30	5	80	1	0.1	8	200	SOD-523
GSDZTCMM5Z15V	14.3	15	15.8	30	5	80	1	0.05	10.5	200	SOD-523
GSDZTCMM5Z16V	15.3	16	17.1	40	5	80	1	0.05	11.2	200	SOD-523
GSDZTCMM5Z18V	16.8	18	19.1	45	5	80	1	0.05	12.6	200	SOD-523
GSDZTCMM5Z20V	18.8	20	21.2	55	5	100	1	0.05	14	200	SOD-523
GSDZTCMM5Z22V	20.8	22	23.3	55	5	100	1	0.05	15.4	200	SOD-523
GSDZTCMM5Z24V	22.8	24	25.6	70	5	120	1	0.05	16.8	200	SOD-523
GSDZTCMM5Z27V	25.1	27	28.9	80	2	300	0.5	0.05	18.9	200	SOD-523
GSDZTCMM5Z30V	28	30	32	80	2	300	0.5	0.05	21	200	SOD-523
GSDZTCMM5Z33V	31	33	35	80	2	300	0.5	0.05	23.2	200	SOD-523
GSDZTCMM5Z36V	34	36	38	90	2	500	0.5	0.05	25.2	200	SOD-523
GSDZTCMM5Z39V	37	39	41	130	2	500	0.5	0.05	27.3	200	SOD-523
GSDZTCMM5Z43V	40	43	46	150	2	500	0.5	0.05	30.1	200	SOD-523
GSDZTCMM5Z47V	44	47	50	170	2	500	0.5	0.05	32.9	200	SOD-523
GSDZTCMM5Z51V	48	51	54	180	2	500	0.5	0.05	35.7	200	SOD-523
GSDZTCMM5Z56V	52	56	60	200	2	500	0.5	0.05	39.2	200	SOD-523
GSDZTCMM5Z62V	58	62	66	215	2	500	0.5	0.05	43.4	200	SOD-523
GSDZTCMM5Z68V	64	68	72	240	2	500	0.5	0.05	47.6	200	SOD-523
GSDZTCMM5Z75V	70	75	79	255	2	500	0.5	0.05	52.5	200	SOD-523

TVS Diode_SMF 200W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMF5.0A	GSESMF5.0CA	6.4	7	10	5	9.2	21.74	400	SOD-123
GSESMF6.0A	GSESMF6.0CA	6.67	7.37	10	6	10.3	19.42	400	SOD-123
GSESMF6.5A	GSESMF6.5CA	7.22	7.98	10	6.5	11.2	17.86	250	SOD-123
GSESMF7.0A	GSESMF7.0CA	7.78	8.6	10	7	12	16.67	100	SOD-123
GSESMF7.5A	GSESMF7.5CA	8.33	9.21	1	7.5	12.9	15.5	50	SOD-123
GSESMF8.0A	GSESMF8.0CA	8.89	9.83	1	8	13.6	14.71	25	SOD-123
GSESMF8.5A	GSESMF8.5CA	9.44	10.4	1	8.5	14.4	13.89	10	SOD-123
GSESMF9.0A	GSESMF9.0CA	10	11.1	1	9	15.4	12.99	5	SOD-123
GSESMF10A	GSESMF10CA	11.1	12.3	1	10	17	11.76	2.5	SOD-123
GSESMF11A	GSESMF11CA	12.2	13.5	1	11	18.2	10.99	2.5	SOD-123
GSESMF12A	GSESMF12CA	13.3	14.7	1	12	19.9	10.05	2.5	SOD-123
GSESMF13A	GSESMF13CA	14.4	15.9	1	13	21.5	9.3	1	SOD-123
GSESMF14A	GSESMF14CA	15.6	17.2	1	14	23.3	8.62	1	SOD-123
GSESMF15A	GSESMF15CA	16.7	18.5	1	15	24.4	8.2	1	SOD-123
GSESMF16A	GSESMF16CA	17.8	19.7	1	16	26	7.69	1	SOD-123
GSESMF17A	GSESMF17CA	18.9	20.9	1	17	27.6	7.25	1	SOD-123
GSESMF18A	GSESMF18CA	20	22.1	1	18	29.2	6.85	1	SOD-123
GSESMF19A	GSESMF19CA	21.1	23.3	1	19	30.6	6.54	1	SOD-123
GSESMF20A	GSESMF20CA	22.2	24.5	1	20	32.4	6.17	1	SOD-123
GSESMF22A	GSESMF22CA	24.4	26.9	1	22	35.5	5.63	1	SOD-123
GSESMF24A	GSESMF24CA	26.7	29.5	1	24	38.9	5.14	1	SOD-123
GSESMF26A	GSESMF26CA	28.9	31.9	1	26	42.1	4.75	1	SOD-123
GSESMF28A	GSESMF28CA	31.1	34.4	1	28	45.4	4.41	1	SOD-123
GSESMF30A	GSESMF30CA	33.3	36.8	1	30	48.4	4.13	1	SOD-123
GSESMF33A	GSESMF33CA	36.7	40.6	1	33	53.3	3.75	1	SOD-123
GSESMF36A	GSESMF36CA	40	44.2	1	36	58.1	3.44	1	SOD-123

TVS Diode_SMF 200W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMF40A	GSESMF40CA	44.4	49.1	1	40	64.5	3.1	1	SOD-123
GSESMF43A	GSESMF43CA	47.8	52.8	1	43	69.4	2.88	1	SOD-123
GSESMF45A	GSESMF45CA	50	55.3	1	45	72.7	2.75	1	SOD-123
GSESMF48A	GSESMF48CA	53.3	58.9	1	48	77.4	2.58	1	SOD-123
GSESMF51A	GSESMF51CA	56.7	62.7	1	51	82.4	2.43	1	SOD-123
GSESMF54A	GSESMF54CA	60	66.3	1	54	87.1	2.3	1	SOD-123
GSESMF58A	GSESMF58CA	64.4	71.2	1	58	93.6	2.14	1	SOD-123
GSESMF60A	GSESMF60CA	66.7	73.7	1	60	96.8	2.07	1	SOD-123
GSESMF64A	GSESMF64CA	71.1	78.6	1	64	103	1.94	1	SOD-123
GSESMF70A	GSESMF70CA	77.8	86	1	70	113	1.77	1	SOD-123
GSESMF75A	GSESMF75CA	83.3	92.1	1	75	121	1.65	1	SOD-123
GSESMF78A	GSESMF78CA	86.7	95.8	1	78	126	1.59	1	SOD-123
GSESMF80A	GSESMF80CA	88.8	97.6	1	80	129	1.55	1	SOD-123
GSESMF85A	GSESMF85CA	94.4	104	1	85	137	1.46	2.5	SOD-123
GSESMF90A	GSESMF90CA	100	111	1	90	146	1.37	2.5	SOD-123
GSESMF100A	GSESMF100CA	111	123	1	100	162	1.23	2.5	SOD-123
GSESMF110A	GSESMF110CA	122	135	1	110	177	1.13	2.5	SOD-123
GSESMF120A	GSESMF120CA	133	147	1	120	193	1.04	2.5	SOD-123
GSESMF130A	GSESMF130CA	144	159	1	130	209	0.96	2.5	SOD-123
GSESMF140A	GSESMF140CA	155	171	1	140	224	0.89	2.5	SOD-123
GSESMF150A	GSESMF150CA	167	185	1	150	243	0.82	2.5	SOD-123
GSESMF160A	GSESMF160CA	178	197	1	160	259	0.77	2.5	SOD-123
GSESMF170A	GSESMF170CA	189	209	1	170	275	0.73	2.5	SOD-123
GSESMF180A	GSESMF180CA	200	220	1	180	292	0.69	2.5	SOD-123
GSESMF190A	GSESMF190CA	211	232	1	190	308	0.69	2.5	SOD-123

TVS Diode_SMAJ 400W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMAJ5.0A	GSESMAJ5.0CA	6.4	7	10	5	9.2	43.5	800	SMA
GSESMAJ6.0A	GSESMAJ6.0CA	6.67	7.37	10	6	10.3	38.8	800	SMA
GSESMAJ6.5A	GSESMAJ6.5CA	7.22	7.98	10	6.5	11.2	35.7	500	SMA
GSESMAJ7.0A	GSESMAJ7.0CA	7.78	8.6	10	7	12	33.3	200	SMA
GSESMAJ7.5A	GSESMAJ7.5CA	8.33	9.21	1	7.5	12.9	31	100	SMA
GSESMAJ8.0A	GSESMAJ8.0CA	8.89	9.83	1	8	13.6	29.4	50	SMA
GSESMAJ8.5A	GSESMAJ8.5CA	9.44	10.4	1	8.5	14.4	27.8	10	SMA
GSESMAJ9.0A	GSESMAJ9.0CA	10	11.1	1	9	15.4	26	5	SMA
GSESMAJ10A	GSESMAJ10CA	11.1	12.3	1	10	17	23.5	5	SMA
GSESMAJ11A	GSESMAJ11CA	12.2	13.5	1	11	18.2	22	5	SMA
GSESMAJ12A	GSESMAJ12CA	13.3	14.7	1	12	19.9	20.1	5	SMA
GSESMAJ13A	GSESMAJ13CA	14.4	15.9	1	13	21.5	18.6	5	SMA
GSESMAJ14A	GSESMAJ14CA	15.6	17.2	1	14	23.3	17.2	5	SMA
GSESMAJ15A	GSESMAJ15CA	16.7	18.5	1	15	24.4	16.4	5	SMA
GSESMAJ16A	GSESMAJ16CA	17.8	19.7	1	16	26	15.4	5	SMA
GSESMAJ17A	GSESMAJ17CA	18.9	20.9	1	17	27.6	14.5	5	SMA
GSESMAJ18A	GSESMAJ18CA	20	22.1	1	18	29.2	13.7	5	SMA
GSESMAJ19A	GSESMAJ19CA	21.1	23.3	1	19	30.8	13	5	SMA
GSESMAJ20A	GSESMAJ20CA	22.2	24.5	1	20	32.4	12.4	5	SMA
GSESMAJ22A	GSESMAJ22CA	24.4	26.9	1	22	35.5	11.3	5	SMA
GSESMAJ24A	GSESMAJ24CA	26.7	29.5	1	24	38.9	10.3	5	SMA
GSESMAJ26A	GSESMAJ26CA	28.9	31.9	1	26	42.1	9.5	5	SMA
GSESMAJ28A	GSESMAJ28CA	31.1	34.4	1	28	45.4	8.8	5	SMA
GSESMAJ30A	GSESMAJ30CA	33.3	36.8	1	30	48.4	8.3	5	SMA
GSESMAJ33A	GSESMAJ33CA	36.7	40.6	1	33	53.3	7.5	5	SMA
GSESMAJ36A	GSESMAJ36CA	40	44.2	1	36	58.1	6.9	5	SMA

TVS Diode_SMAJ 400W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMAJ40A	GSESMAJ40CA	44.4	49.1	1	40	64.5	6.2	5	SMA
GSESMAJ43A	GSESMAJ43CA	47.8	52.8	1	43	69.4	5.8	5	SMA
GSESMAJ45A	GSESMAJ45CA	50	55.3	1	45	72.7	5.5	5	SMA
GSESMAJ48A	GSESMAJ48CA	53.3	58.9	1	48	77.4	5.2	5	SMA
GSESMAJ51A	GSESMAJ51CA	56.7	62.7	1	51	82.4	4.9	5	SMA
GSESMAJ54A	GSESMAJ54CA	60	66.3	1	54	87.1	4.6	5	SMA
GSESMAJ58A	GSESMAJ58CA	64.4	71.2	1	58	93.6	4.3	5	SMA
GSESMAJ60A	GSESMAJ60CA	66.7	73.7	1	60	96.8	4.1	5	SMA
GSESMAJ64A	GSESMAJ64CA	71.1	78.6	1	64	103	3.9	5	SMA
GSESMAJ70A	GSESMAJ70CA	77.8	86	1	70	113	3.5	5	SMA
GSESMAJ75A	GSESMAJ75CA	83.3	92.1	1	75	121	3.3	5	SMA
GSESMAJ78A	GSESMAJ78CA	86.7	95.8	1	78	126	3.2	5	SMA
GSESMAJ80A	GSESMAJ80CA	88.8	97.6	1	80	130	3.1	5	SMA
GSESMAJ85A	GSESMAJ85CA	94.4	104	1	85	137	2.9	5	SMA
GSESMAJ90A	GSESMAJ90CA	100	111	1	90	146	2.7	5	SMA
GSESMAJ100A	GSESMAJ100CA	111	123	1	100	162	2.5	5	SMA
GSESMAJ110A	GSESMAJ110CA	122	135	1	110	177	2.3	5	SMA
GSESMAJ120A	GSESMAJ120CA	133	147	1	120	193	2.1	5	SMA
GSESMAJ130A	GSESMAJ130CA	144	159	1	130	209	1.9	5	SMA
GSESMAJ140A	GSESMAJ140CA	155	171	1	140	227	1.8	5	SMA
GSESMAJ150A	GSESMAJ150CA	167	185	1	150	243	1.6	5	SMA
GSESMAJ160A	GSESMAJ160CA	178	197	1	160	259	1.5	5	SMA
GSESMAJ170A	GSESMAJ170CA	189	209	1	170	275	1.5	5	SMA
GSESMAJ180A	GSESMAJ180CA	200	220	1	180	292	1.4	5	SMA
GSESMAJ190A	GSESMAJ190CA	211	232	1	190	308	1.3	5	SMA
GSESMAJ200A	GSESMAJ200CA	224	247	1	200	324	1.2	5	SMA

TVS Diode_SMAJ 400W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSEMAJ220A	GSEMAJ220CA	246	272	1	220	356	1.1	5	SMA
GSEMAJ250A	GSEMAJ250CA	279	309	1	250	405	1	5	SMA
GSEMAJ300A	GSEMAJ300CA	335	371	1	300	486	0.8	5	SMA
GSEMAJ350A	GSEMAJ350CA	391	432	1	350	567	0.7	5	SMA
GSEMAJ400A	GSEMAJ400CA	447	494	1	400	648	0.6	5	SMA
GSEMAJ440A	GSEMAJ440CA	492	543	1	440	713	0.6	5	SMA

TVS Diode_SMBJ 600W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMBJ5.0A	GSESMBJ5.0CA	6.4	7	10	5	9.2	65.22	800	SMB
GSESMBJ6.0A	GSESMBJ6.0CA	6.67	7.37	10	6	10.3	58.25	800	SMB
GSESMBJ6.5A	GSESMBJ6.5CA	7.22	7.98	10	6.5	11.2	53.57	500	SMB
GSESMBJ7.0A	GSESMBJ7.0CA	7.78	8.6	10	7	12	50	200	SMB
GSESMBJ7.5A	GSESMBJ7.5CA	8.33	9.21	1	7.5	12.9	46.51	100	SMB
GSESMBJ8.0A	GSESMBJ8.0CA	8.89	9.83	1	8	13.6	44.12	50	SMB
GSESMBJ8.5A	GSESMBJ8.5CA	9.44	10.4	1	8.5	14.4	41.67	10	SMB
GSESMBJ9.0A	GSESMBJ9.0CA	10	11.1	1	9	15.4	38.96	5	SMB
GSESMBJ10A	GSESMBJ10CA	11.1	12.3	1	10	17	35.29	5	SMB
GSESMBJ11A	GSESMBJ11CA	12.2	13.5	1	11	18.2	32.97	5	SMB
GSESMBJ12A	GSESMBJ12CA	13.3	14.7	1	12	19.9	30.15	5	SMB
GSESMBJ13A	GSESMBJ13CA	14.4	15.9	1	13	21.5	27.91	5	SMB
GSESMBJ14A	GSESMBJ14CA	15.6	17.2	1	14	23.2	25.86	5	SMB
GSESMBJ15A	GSESMBJ15CA	16.7	18.5	1	15	24.4	24.59	5	SMB

TVS Diode_SMBJ 600W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMBJ16A	GSESMBJ16CA	17.8	19.7	1	16	26	23.08	5	SMB
GSESMBJ17A	GSESMBJ17CA	18.9	20.9	1	17	27.6	21.74	5	SMB
GSESMBJ18A	GSESMBJ18CA	20	22.1	1	18	29.2	20.55	5	SMB
GSESMBJ19A	GSESMBJ19CA	21.1	23.3	1	19	30.8	19.49	5	SMB
GSESMBJ20A	GSESMBJ20CA	22.2	24.5	1	20	32.4	18.52	5	SMB
GSESMBJ22A	GSESMBJ22CA	24.4	26.9	1	22	35.5	16.9	5	SMB
GSESMBJ24A	GSESMBJ24CA	26.7	29.5	1	24	38.9	15.42	5	SMB
GSESMBJ26A	GSESMBJ26CA	28.9	31.9	1	26	42.1	14.25	5	SMB
GSESMBJ28A	GSESMBJ28CA	31.1	34.4	1	28	45.4	13.22	5	SMB
GSESMBJ30A	GSESMBJ30CA	33.3	36.8	1	30	48.4	12.4	5	SMB
GSESMBJ33A	GSESMBJ33CA	36.7	40.6	1	33	53.3	11.26	5	SMB
GSESMBJ36A	GSESMBJ36CA	40	44.2	1	36	58.1	10.33	5	SMB
GSESMBJ40A	GSESMBJ40CA	44.4	49.1	1	40	64.5	9.3	5	SMB
GSESMBJ43A	GSESMBJ43CA	47.8	52.8	1	43	69.4	8.65	5	SMB
GSESMBJ45A	GSESMBJ45CA	50	55.3	1	45	72.7	8.25	5	SMB
GSESMBJ48A	GSESMBJ48CA	53.3	58.9	1	48	77.4	7.75	5	SMB
GSESMBJ51A	GSESMBJ51CA	56.7	62.7	1	51	82.4	7.28	5	SMB
GSESMBJ54A	GSESMBJ54CA	60	66.3	1	54	87.1	6.89	5	SMB
GSESMBJ58A	GSESMBJ58CA	64.4	71.2	1	58	93.6	6.41	5	SMB
GSESMBJ60A	GSESMBJ60CA	66.7	73.7	1	60	96.8	6.2	5	SMB
GSESMBJ64A	GSESMBJ64CA	71.1	78.6	1	64	103	5.83	5	SMB
GSESMBJ70A	GSESMBJ70CA	77.8	86	1	70	113	5.31	5	SMB
GSESMBJ75A	GSESMBJ75CA	83.3	92.1	1	75	121	4.96	5	SMB
GSESMBJ78A	GSESMBJ78CA	86.7	95.8	1	78	126	4.76	5	SMB
GSESMBJ80A	GSESMBJ80CA	88.8	97.6	1	80	129.6	4.63	5	SMB
GSESMBJ85A	GSESMBJ85CA	94.4	104	1	85	137	4.38	5	SMB

TVS Diode_SMBJ 600W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMBJ90A	GSESMBJ90CA	100	111	1	90	146	4.11	5	SMB
GSESMBJ100A	GSESMBJ100CA	111	123	1	100	162	3.7	5	SMB
GSESMBJ110A	GSESMBJ110CA	122	135	1	110	177	3.39	5	SMB
GSESMBJ120A	GSESMBJ120CA	133	147	1	120	193	3.11	5	SMB
GSESMBJ130A	GSESMBJ130CA	144	159	1	130	209	2.87	5	SMB
GSESMBJ140A	GSESMBJ140CA	155	171	1	140	226.8	2.65	5	SMB
GSESMBJ150A	GSESMBJ150CA	167	185	1	150	243	2.47	5	SMB
GSESMBJ160A	GSESMBJ160CA	178	197	1	160	259	2.32	5	SMB
GSESMBJ170A	GSESMBJ170CA	189	209	1	170	275	2.18	5	SMB
GSESMBJ180A	GSESMBJ180CA	200	220	1	180	291.6	2.06	5	SMB
GSESMBJ190A	GSESMBJ190CA	211	232	1	190	307.8	1.95	5	SMB
GSESMBJ200A	GSESMBJ200CA	224	247	1	200	324	1.85	5	SMB
GSESMBJ220A	GSESMBJ220CA	246	272	1	220	356	1.69	5	SMB
GSESMBJ250A	GSESMBJ250CA	279	309	1	250	405	1.48	5	SMB
GSESMBJ300A	GSESMBJ300CA	335	371	1	300	486	1.23	5	SMB
GSESMBJ350A	GSESMBJ350CA	391	432	1	350	567	1.06	5	SMB
GSESMBJ400A	GSESMBJ400CA	447	494	1	400	648	0.93	5	SMB
GSESMBJ440A	GSESMBJ440CA	492	543	1	440	713	0.84	5	SMB



TVS Diode_SMCJ 1500W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMCJ5.0A	GSESMCJ5.0CA	6.4	7	10	5	9.2	163.04	1000	SMC
GSESMCJ6.0A	GSESMCJ6.0CA	6.67	7.37	10	6	10.3	145.63	1000	SMC
GSESMCJ6.5A	GSESMCJ6.5CA	7.22	7.98	10	6.5	11.2	133.93	500	SMC
GSESMCJ7.0A	GSESMCJ7.0CA	7.78	8.6	10	7	12	125	200	SMC
GSESMCJ7.5A	GSESMCJ7.5CA	8.33	9.21	1	7.5	12.9	116.28	100	SMC
GSESMCJ8.0A	GSESMCJ8.0CA	8.89	9.83	1	8	13.6	110.29	50	SMC
GSESMCJ8.5A	GSESMCJ8.5CA	9.44	10.4	1	8.5	14.4	104.17	20	SMC
GSESMCJ9.0A	GSESMCJ9.0CA	10	11.1	1	9	15.4	97.4	10	SMC
GSESMCJ10A	GSESMCJ10CA	11.1	12.3	1	10	17	88.24	5	SMC
GSESMCJ11A	GSESMCJ11CA	12.2	13.5	1	11	18.2	82.42	5	SMC
GSESMCJ12A	GSESMCJ12CA	13.3	14.7	1	12	19.9	75.38	5	SMC
GSESMCJ13A	GSESMCJ13CA	14.4	15.9	1	13	21.5	69.77	5	SMC
GSESMCJ14A	GSESMCJ14CA	15.6	17.2	1	14	23.2	64.66	5	SMC
GSESMCJ15A	GSESMCJ15CA	16.7	18.5	1	15	24.4	61.48	5	SMC
GSESMCJ16A	GSESMCJ16CA	17.8	19.7	1	16	26	57.69	5	SMC
GSESMCJ17A	GSESMCJ17CA	18.9	20.9	1	17	27.6	54.35	5	SMC
GSESMCJ18A	GSESMCJ18CA	20	22.1	1	18	29.2	51.37	5	SMC
GSESMCJ19A	GSESMCJ19CA	21.1	23.3	1	19	30.8	48.73	5	SMC
GSESMCJ20A	GSESMCJ20CA	22.2	24.5	1	20	32.4	46.3	5	SMC
GSESMCJ22A	GSESMCJ22CA	24.4	26.9	1	22	35.5	42.25	5	SMC
GSESMCJ24A	GSESMCJ24CA	26.7	29.5	1	24	38.9	38.56	5	SMC
GSESMCJ26A	GSESMCJ26CA	28.9	31.9	1	26	42.1	35.63	5	SMC
GSESMCJ28A	GSESMCJ28CA	31.1	34.4	1	28	45.4	33.04	5	SMC
GSESMCJ30A	GSESMCJ30CA	33.3	36.8	1	30	48.4	30.99	5	SMC
GSESMCJ33A	GSESMCJ33CA	36.7	40.6	1	33	53.3	28.14	5	SMC
GSESMCJ36A	GSESMCJ36CA	40	44.2	1	36	58.1	25.82	5	SMC

TVS Diode_SMCJ 1500W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMCJ40A	GSESMCJ40CA	44.4	49.1	1	40	64.5	23.26	5	SMC
GSESMCJ43A	GSESMCJ43CA	47.8	52.8	1	43	69.4	21.61	5	SMC
GSESMCJ45A	GSESMCJ45CA	50	55.3	1	45	72.7	20.63	5	SMC
GSESMCJ48A	GSESMCJ48CA	53.3	58.9	1	48	77.4	19.38	5	SMC
GSESMCJ51A	GSESMCJ51CA	56.7	62.7	1	51	82.4	18.2	5	SMC
GSESMCJ54A	GSESMCJ54CA	60	66.3	1	54	87.1	17.22	5	SMC
GSESMCJ58A	GSESMCJ58CA	64.4	71.2	1	58	93.6	16.03	5	SMC
GSESMCJ60A	GSESMCJ60CA	66.7	73.7	1	60	96.8	15.5	5	SMC
GSESMCJ64A	GSESMCJ64CA	71.1	78.6	1	64	103	14.56	5	SMC
GSESMCJ70A	GSESMCJ70CA	77.8	86	1	70	113	13.27	5	SMC
GSESMCJ75A	GSESMCJ75CA	83.3	92.1	1	75	121	12.4	5	SMC
GSESMCJ78A	GSESMCJ78CA	86.7	95.8	1	78	126	11.9	5	SMC
GSESMCJ80A	GSESMCJ80CA	88.8	97.6	1	80	129.6	11.57	5	SMC
GSESMCJ85A	GSESMCJ85CA	94.4	104	1	85	137	10.95	5	SMC
GSESMCJ90A	GSESMCJ90CA	100	111	1	90	146	10.27	5	SMC
GSESMCJ100A	GSESMCJ100CA	111	123	1	100	162	9.26	5	SMC
GSESMCJ110A	GSESMCJ110CA	122	135	1	110	177	8.47	5	SMC
GSESMCJ120A	GSESMCJ120CA	133	147	1	120	193	7.77	5	SMC
GSESMCJ130A	GSESMCJ130CA	144	159	1	130	209	7.18	5	SMC
GSESMCJ140A	GSESMCJ140CA	155	171	1	140	226.8	6.61	5	SMC
GSESMCJ150A	GSESMCJ150CA	167	185	1	150	243	6.17	5	SMC
GSESMCJ160A	GSESMCJ160CA	178	197	1	160	259	5.79	5	SMC
GSESMCJ170A	GSESMCJ170CA	189	209	1	170	275	5.45	5	SMC
GSESMCJ180A	GSESMCJ180CA	200	220	1	180	291.6	5.14	5	SMC
GSESMCJ190A	GSESMCJ190CA	211	232	1	190	307.8	4.87	5	SMC
GSESMCJ200A	GSESMCJ200CA	224	247	1	200	324	4.6	5	SMC

TVS Diode_SMCJ 1500W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMCJ220A	GSESMCJ220CA	246	272	1	220	356	4.2	5	SMC
GSESMCJ250A	GSESMCJ250CA	279	309	1	250	405	3.7	5	SMC
GSESMCJ300A	GSESMCJ300CA	335	371	1	300	486	3.1	5	SMC
GSESMCJ350A	GSESMCJ350CA	391	432	1	350	567	2.6	5	SMC
GSESMCJ400A	GSESMCJ400CA	447	494	1	400	648	2.3	5	SMC
GSESMCJ440A	GSESMCJ440CA	492	543	1	440	713	2.1	5	SMC

TVS Diode_SMDJ 3000W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMDJ5.0A	GSESMDJ5.0CA	6.4	7	50	5	9.2	326.09	5000	SMC
GSESMDJ6.0A	GSESMDJ6.0CA	6.67	7.37	50	6	10.3	291.26	5000	SMC
GSESMDJ6.5A	GSESMDJ6.5CA	7.22	7.98	50	6.5	11.2	267.86	2000	SMC
GSESMDJ7.0A	GSESMDJ7.0CA	7.78	8.6	50	7	12	250	1000	SMC
GSESMDJ7.5A	GSESMDJ7.5CA	8.33	9.21	5	7.5	12.9	232.56	250	SMC
GSESMDJ8.0A	GSESMDJ8.0CA	8.89	9.83	5	8	13.6	220.59	150	SMC
GSESMDJ8.5A	GSESMDJ8.5CA	9.44	10.4	5	8.5	14.4	208.33	50	SMC
GSESMDJ9.0A	GSESMDJ9.0CA	10	11.1	5	9	15.4	194.81	20	SMC
GSESMDJ10A	GSESMDJ10CA	11.1	12.3	5	10	17	176.47	15	SMC
GSESMDJ11A	GSESMDJ11CA	12.2	13.5	5	11	18.2	164.84	2	SMC
GSESMDJ12A	GSESMDJ12CA	13.3	14.7	5	12	19.9	150.75	2	SMC
GSESMDJ13A	GSESMDJ13CA	14.4	15.9	5	13	21.5	139.53	2	SMC
GSESMDJ14A	GSESMDJ14CA	15.6	17.2	5	14	23.2	129.31	2	SMC
GSESMDJ15A	GSESMDJ15CA	16.7	18.5	5	15	24.4	122.95	2	SMC

TVS Diode_SMDJ 3000W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMDJ16A	GSESMDJ16CA	17.8	19.7	5	16	26	115.38	2	SMC
GSESMDJ17A	GSESMDJ17CA	18.9	20.9	5	17	27.6	108.7	2	SMC
GSESMDJ18A	GSESMDJ18CA	20	22.1	5	18	29.2	102.74	2	SMC
GSESMDJ19A	GSESMDJ19CA	21.1	23.3	5	19	30.8	97.47	2	SMC
GSESMDJ20A	GSESMDJ20CA	22.2	24.5	5	20	32.4	92.59	2	SMC
GSESMDJ22A	GSESMDJ22CA	24.4	26.9	5	22	35.5	84.51	2	SMC
GSESMDJ24A	GSESMDJ24CA	26.7	29.5	5	24	38.9	77.12	2	SMC
GSESMDJ26A	GSESMDJ26CA	28.9	31.9	5	26	42.1	71.26	2	SMC
GSESMDJ28A	GSESMDJ28CA	31.1	34.4	5	28	45.4	66.08	2	SMC
GSESMDJ30A	GSESMDJ30CA	33.3	36.8	5	30	48.4	61.98	2	SMC
GSESMDJ33A	GSESMDJ33CA	36.7	40.6	5	33	53.3	56.29	2	SMC
GSESMDJ36A	GSESMDJ36CA	40	44.2	5	36	58.1	51.64	2	SMC
GSESMDJ40A	GSESMDJ40CA	44.4	49.1	5	40	64.5	46.51	2	SMC
GSESMDJ43A	GSESMDJ43CA	47.8	52.8	5	43	69.4	43.23	2	SMC
GSESMDJ45A	GSESMDJ45CA	50	55.3	5	45	72.7	41.27	2	SMC
GSESMDJ48A	GSESMDJ48CA	53.3	58.9	5	48	77.4	38.76	2	SMC
GSESMDJ51A	GSESMDJ51CA	56.7	62.7	5	51	82.4	36.41	2	SMC
GSESMDJ54A	GSESMDJ54CA	60	66.3	5	54	87.1	34.44	2	SMC
GSESMDJ58A	GSESMDJ58CA	64.4	71.2	5	58	93.6	32.05	2	SMC
GSESMDJ60A	GSESMDJ60CA	66.7	73.7	5	60	96.8	30.99	2	SMC
GSESMDJ64A	GSESMDJ64CA	71.1	78.6	5	64	103	29.13	2	SMC
GSESMDJ70A	GSESMDJ70CA	77.8	86	5	70	113	26.55	2	SMC
GSESMDJ75A	GSESMDJ75CA	83.3	92.1	5	75	121	24.79	2	SMC
GSESMDJ78A	GSESMDJ78CA	86.7	95.8	5	78	126	23.81	2	SMC
GSESMDJ80A	GSESMDJ80CA	88.8	97.6	5	80	129.6	23.15	2	SMC
GSESMDJ85A	GSESMDJ85CA	94.4	104	5	85	137	21.9	2	SMC

TVS Diode_SMDJ 3000W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSESMDJ90A	GSESMDJ90CA	100	111	5	90	146	20.5	2	SMC
GSESMDJ100A	GSESMDJ100CA	111	123	5	100	162	18.52	2	SMC
GSESMDJ110A	GSESMDJ110CA	122	135	5	110	177	16.95	2	SMC
GSESMDJ120A	GSESMDJ120CA	133	147	5	120	193	15.54	2	SMC
GSESMDJ130A	GSESMDJ130CA	144	159	5	130	209	14.35	2	SMC
GSESMDJ140A	GSESMDJ140CA	155	171	5	140	226.8	13.23	2	SMC
GSESMDJ150A	GSESMDJ150CA	167	185	5	150	243	12.35	2	SMC
GSESMDJ160A	GSESMDJ160CA	178	197	5	160	259	11.58	2	SMC
GSESMDJ170A	GSESMDJ170CA	189	209	5	170	275	10.91	2	SMC
GSESMDJ180A	GSESMDJ180CA	200	220	5	180	291.6	10.29	2	SMC
GSESMDJ190A	GSESMDJ190CA	211	232	5	190	307.8	9.75	2	SMC
GSESMDJ200A	GSESMDJ200CA	224	247	5	200	324	9.26	2	SMC
GSESMDJ220A	GSESMDJ220CA	246	272	5	220	356	8.43	2	SMC
GSESMDJ250A	GSESMDJ250CA	279	309	5	250	405	7.41	2	SMC
GSESMDJ300A	GSESMDJ300CA	335	371	5	300	486	6.17	2	SMC
GSESMDJ350A	GSESMDJ350CA	391	432	5	350	567	5.29	2	SMC
GSESMDJ400A	GSESMDJ400CA	447	494	5	400	648	4.63	2	SMC
GSESMDJ440A	GSESMDJ440CA	492	543	5	440	713	4.21	2	SMC



TVS Diode_5.0SMDJ 5000W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSE5.0SMDJ11A	GSE5.0SMDJ11CA	12.2	13.5	10	11	18.2	274.7	800	SMC
GSE5.0SMDJ12A	GSE5.0SMDJ12CA	13.3	14.7	10	12	19.9	251.3	800	SMC
GSE5.0SMDJ13A	GSE5.0SMDJ13CA	14.4	15.9	10	13	21.5	232.6	500	SMC
GSE5.0SMDJ14A	GSE5.0SMDJ14CA	15.6	17.2	10	14	23.2	215.5	200	SMC
GSE5.0SMDJ15A	GSE5.0SMDJ15CA	16.7	18.5	1	15	24.4	204.9	100	SMC
GSE5.0SMDJ16A	GSE5.0SMDJ16CA	17.8	19.7	1	16	26	192.3	50	SMC
GSE5.0SMDJ17A	GSE5.0SMDJ17CA	18.9	20.9	1	17	27.6	181.2	20	SMC
GSE5.0SMDJ18A	GSE5.0SMDJ18CA	20	22.1	1	18	29.2	171.2	10	SMC
GSE5.0SMDJ19A	GSE5.0SMDJ19CA	21.1	23.3	1	19	30.8	162.4	10	SMC
GSE5.0SMDJ20A	GSE5.0SMDJ20CA	22.2	24.5	1	20	32.4	154.3	5	SMC
GSE5.0SMDJ22A	GSE5.0SMDJ22CA	24.4	26.9	1	22	35.5	140.8	5	SMC
GSE5.0SMDJ24A	GSE5.0SMDJ24CA	26.7	29.5	1	24	38.9	128.8	5	SMC
GSE5.0SMDJ26A	GSE5.0SMDJ26CA	28.9	31.9	1	26	42.1	118.8	5	SMC
GSE5.0SMDJ28A	GSE5.0SMDJ28CA	31.1	34.4	1	28	45.4	110.1	5	SMC
GSE5.0SMDJ30A	GSE5.0SMDJ30CA	33.3	36.8	1	30	48.4	103.3	5	SMC
GSE5.0SMDJ33A	GSE5.0SMDJ33CA	36.7	40.6	1	33	53.3	93.8	5	SMC
GSE5.0SMDJ36A	GSE5.0SMDJ36CA	40	44.2	1	36	58.1	86.1	5	SMC
GSE5.0SMDJ40A	GSE5.0SMDJ40CA	44.4	49.1	1	40	64.5	77.5	5	SMC
GSE5.0SMDJ43A	GSE5.0SMDJ43CA	47.8	52.8	1	43	69.4	72	5	SMC
GSE5.0SMDJ45A	GSE5.0SMDJ45CA	50	55.3	1	45	72.7	68.8	5	SMC
GSE5.0SMDJ48A	GSE5.0SMDJ48CA	53.3	58.9	1	48	77.4	64.6	5	SMC
GSE5.0SMDJ51A	GSE5.0SMDJ51CA	56.7	62.7	1	51	82.4	60.7	5	SMC
GSE5.0SMDJ54A	GSE5.0SMDJ54CA	60	66.3	1	54	87.1	57.4	5	SMC
GSE5.0SMDJ58A	GSE5.0SMDJ58CA	64.4	71.2	1	58	93.6	53.4	5	SMC
GSE5.0SMDJ60A	GSE5.0SMDJ60CA	66.7	73.7	1	60	96.8	51.7	5	SMC
GSE5.0SMDJ64A	GSE5.0SMDJ64CA	71.1	78.6	1	64	103	48.5	5	SMC

TVS Diode_5.0SMDJ 5000W

Product (Uni-Polar)	Product (Bi-Polar)	Breakdown Voltage VBR@IT			VRWM (V)	VC@IPP (V)	IPP max (A)	IR@VRWM (μ A)	Package
		Min(V)	Max(V)	IT(mA)					
GSE5.0SMDJ70A	GSE5.0SMDJ70CA	77.8	86	1	70	113	44.2	5	SMC
GSE5.0SMDJ75A	GSE5.0SMDJ75CA	83.3	92.1	1	75	121	41.3	5	SMC
GSE5.0SMDJ78A	GSE5.0SMDJ78CA	86.7	95.8	1	78	126	39.7	5	SMC
GSE5.0SMDJ80A	GSE5.0SMDJ80CA	88.8	97.6	1	80	129.6	38.6	5	SMC
GSE5.0SMDJ85A	GSE5.0SMDJ85CA	94.4	104	1	85	137	36.5	5	SMC
GSE5.0SMDJ90A	GSE5.0SMDJ90CA	100	111	1	90	146	34.2	5	SMC
GSE5.0SMDJ100A	GSE5.0SMDJ100CA	111	123	1	100	162	30.9	5	SMC
GSE5.0SMDJ110A	GSE5.0SMDJ110CA	122	135	1	110	177	28.2	5	SMC
GSE5.0SMDJ120A	GSE5.0SMDJ120CA	133	147	1	120	193	25.9	5	SMC
GSE5.0SMDJ130A	GSE5.0SMDJ130CA	144	159	1	130	209	23.9	5	SMC
GSE5.0SMDJ140A	GSE5.0SMDJ140CA	155	171	1	140	226.8	22	5	SMC
GSE5.0SMDJ150A	GSE5.0SMDJ150CA	167	185	1	150	243	20.6	5	SMC
GSE5.0SMDJ160A	GSE5.0SMDJ160CA	178	197	1	160	259	19.3	5	SMC
GSE5.0SMDJ170A	GSE5.0SMDJ170CA	189	209	1	170	275	18.2	5	SMC
GSE5.0SMDJ180A	GSE5.0SMDJ180CA	200	220	1	180	291.6	17.1	5	SMC
GSE5.0SMDJ190A	GSE5.0SMDJ190CA	211	232	1	190	307.8	16.2	5	SMC
GSE5.0SMDJ200A	GSE5.0SMDJ200CA	224	247	1	200	324	15.4	5	SMC
GSE5.0SMDJ220A	GSE5.0SMDJ220CA	246	272	1	220	356	14	5	SMC
GSE5.0SMDJ250A	GSE5.0SMDJ250CA	279	309	1	250	405	12.3	5	SMC
GSE5.0SMDJ300A	GSE5.0SMDJ300CA	335	371	1	300	486	10.3	5	SMC
GSE5.0SMDJ350A	GSE5.0SMDJ350CA	391	432	1	350	567	8.8	5	SMC
GSE5.0SMDJ400A	GSE5.0SMDJ400CA	447	494	1	400	648	7.7	5	SMC
GSE5.0SMDJ440A	GSE5.0SMDJ440CA	492	543	1	440	713	7	5	SMC

USB Switches

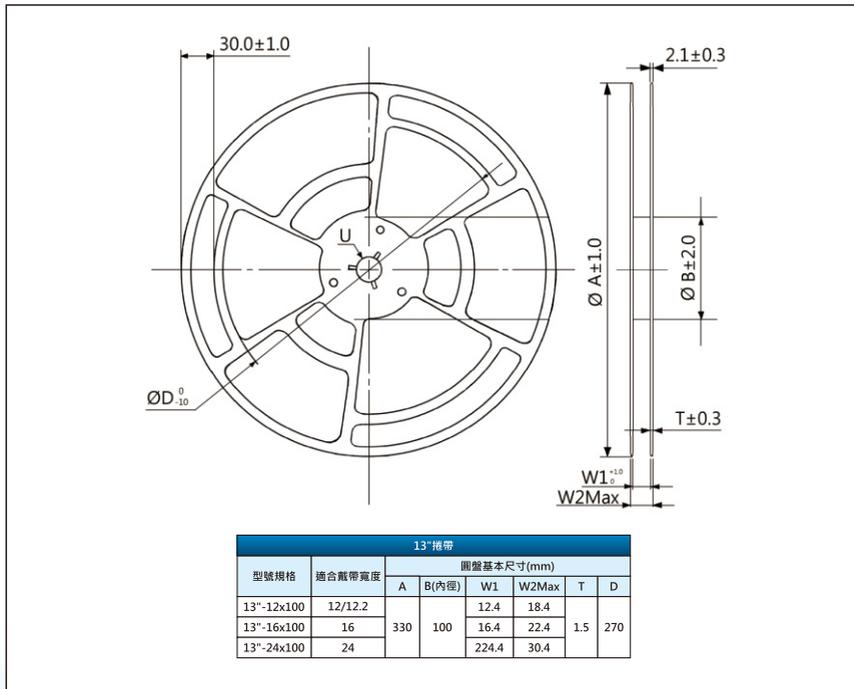
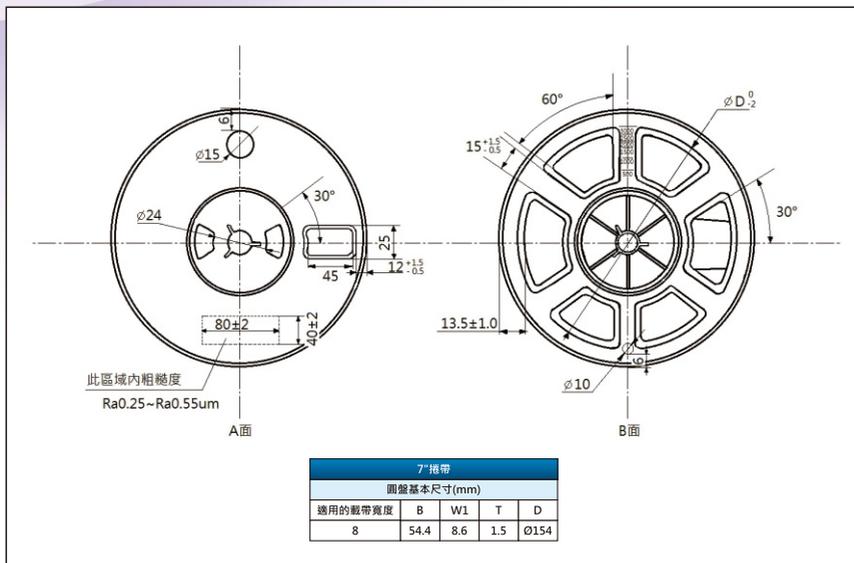
Product	Property	Current Limit	I_Q	UVLO	Error Flag	EN	RDS(ON)	Package Type
	V	A	μ A	V			m Ω	
GS9121	2.5-5.5	0.5-2.045	45	2.1	Y	High/Low	42	SOT-23-5L

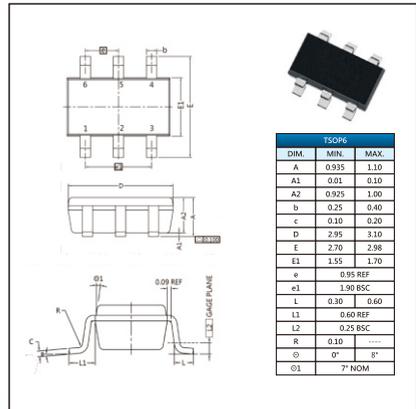
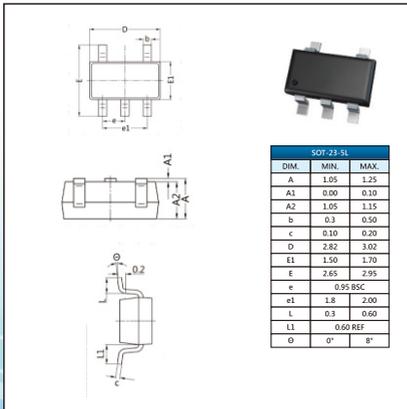
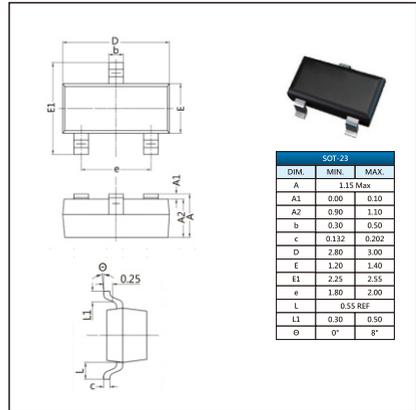
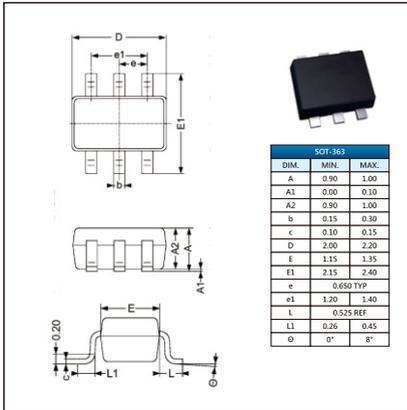
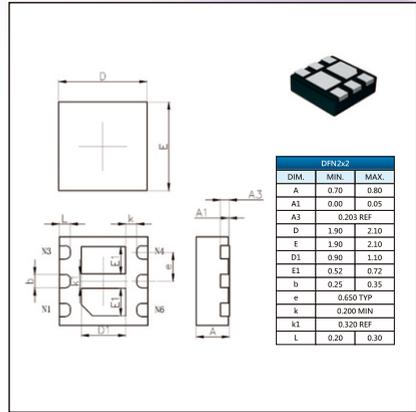
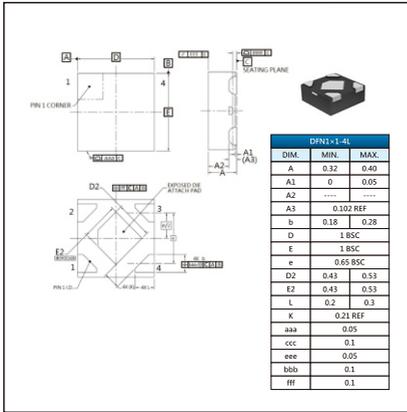


Load Switches

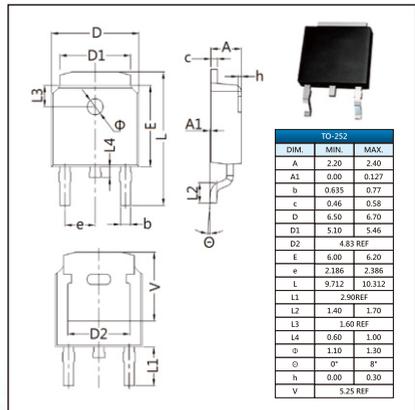
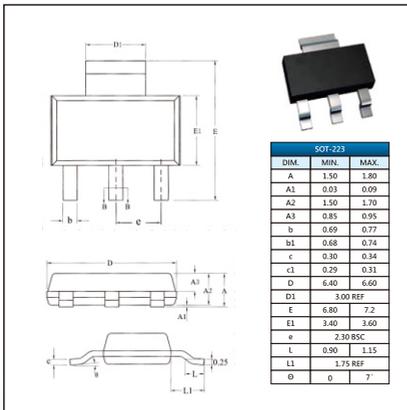
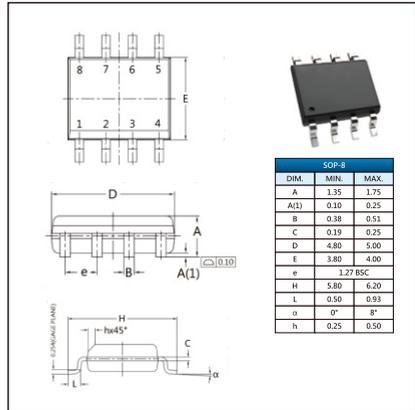
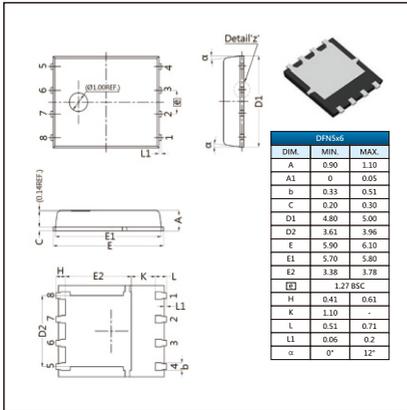
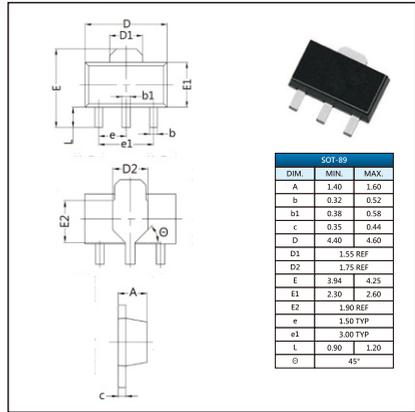
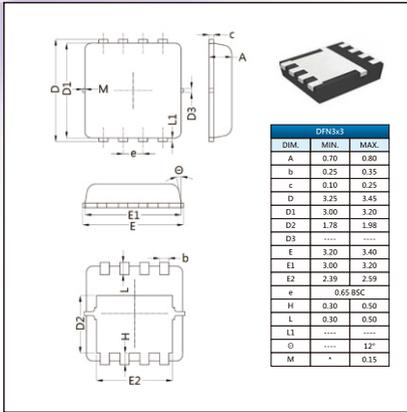
Product	Property	Current Limit	I_Q	UVLO	Error Flag	EN	RDS(ON)	Package Type
	V	A	μ A	V			m Ω	
GS9122	2.5-5.5	0.075-1.7	1.5	2.35	nFAULT	Y	95	SOT-23-6L







OUTLINE DIMENSIONS



Linear Regulators

Type	GS	TI	ON	ST	ANPEC	AME	AXElite
Voltage Reference	GS431	TL431	TL431	TL431	APL431	AME431	AX431
Darlington Series	GS7317	LM317	LM317	LM317			
Darlington Series	GS78LXX	UA78LXX	MC78LXX	L78L	APL78L05	AME78LXX	AX78L05
Darlington Series	GS78XX	UA78XX	MC78XX				
NPN Series	GS1117A	LM/REG1117A	NCP1117LP	LD1117A	APL1117	AME1117	AX1117A
NPN Series	GS1085L	LM1085	CS5203	LD1085	APL1085	AME1085	
NPN Series	GS1084L	LM1084	CS5205	LD1084	APL1084	AME1084	AX1084
PNP Series	GS2615	LM9076Q					
PNP Series	GS2612						
Low IQ Series	GS2803						
High PSRR Series	GS2813	TLV702/3/33P			APL5320	AME8853	AX6603/8
High PSRR Series	GS2823		NCP114	LD59030			
CMOS Series	GS2906B				APL5601/2/3	AME8819	AX6607
CMOS Series	GS2924						
CMOS Series	GS2231				APL5920	AME8846	AX6614
PMOS Series	GS2333/50						



IC Cross Reference

Richtek	UTC	GMT	Fiti power	EUTECH	Niko-sem	DIODES	Torex	UPI
	TL431				L431	TL431		
	LM317							
RT9165	78LXX							
	78DXXA	G78MXX						
RT9164	LD1117A	G1117	FR1117		L1117	AZ1117		
RT8108	UZ1085	G1085			L1085	AZ1085C		
	UZ1084	G1084			L1084	AZ1084C		
RT9164								
RT9063					GS7159	AP2138/9	XC6206	
			FP6146	EUP7967A	GS7119	AP7331/5	XC6209	
				EUP7917	GS7132	AP7343	XC6228/38	UP8806
RT9013		G9001	FP6130/2/4	EUP7905/7	GS7116			UP7707/0111
							XC6201	
RT9018		G9661	FP6145B		GS7166	AP2132A		UP0104/7704



DC-DC Converters

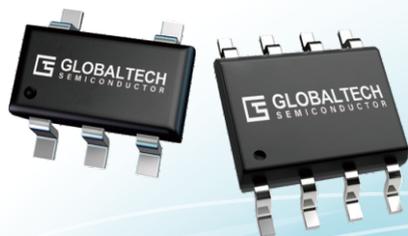
Products	Type	GS	TI	ON	ANPEC	AME	AXElite
Switching Regulator	Bipolar	GS5276	LM2576	LM2576			AX3007C
Switching Regulator	Bipolar	GS5256	LM2596	LM2596			AX3005
Switching Regulator	Bipolar	GS534063	UC34063	MC34063	APW34063		
Switching Regulator	Synchronous Buck	GS5581LAF	TLV62568		APW7104	AME5253	AX3513
Switching Regulator	Synchronous Buck	GS5581LBF		NCP1521B	APW7105		
Switching Regulator	Synchronous Buck	GS5581FAF			APW7178	AME5250	
Switching Regulator	Synchronous Buck	GS5581FAFAF	TPS62590				
Switching Regulator	Synchronous Buck	GS5582	TLV62565/9	NCP1597	APW8824	AME5254	AX3531
Switching Regulator	Synchronous Buck	GS5583			APW8804		
Switching Regulator	Synchronous Buck	GS5421					
Switching Regulator	Synchronous Buck	GS5484			APW7303	AME5268	
Switching Regulator	Boost	GS5801					
Switching Regulator	Boost	GS5802			APW7137	AME5140	AX5523
Switching Regulator	Boost	GS5805					

Standard Linear Product

Products	Type	GS	TI	ON	ST	ANPEC	AXElite	UTC
OPA&Comparators	Amplifier	GS321	LM321	LM321	LM321			LM321
OPA&Comparators	Amplifier	GS321LV	LMV321	LMV321	LMV321			LMV321
OPA&Comparators	Amplifier	GS358	LM358	LM358	LM358	APC558	AX358	LM358
OPA&Comparators	Amplifier	GS324	LM324	LM324	LM324			LM324
OPA&Comparators	Comparators	GS391	LM391	LM391	LM391			LM391
OPA&Comparators	Comparators	GS393	LM393	LM393	LM393	APA2308		LM393
OPA&Comparators	Comparators	GS339	LM339	LM339	LM339			LM339

IC Cross Reference

Richtek	UTC	GMT	Fiti power	EUTECH	Niko-sem	DIODES	UPI	Silergy	MPS
	P2576				N2576				
	P3596		FP6346		N2596				
RT34063						AZ34063A			
RT8059		G5622/28		EUP3418			UP1703A	SY8008/09	
RT8009						PAM2305		SY8031	
RT8010							UP1703P/22	SY8010/61	MP2136
								SY8030	
RT8097A			FP6378A					SY8089	
RT8061A							UP1727	SY8033B/63	
RT8258			FR9702						
RT8250			FR9884	EUP3484		AP3503			MP1484
								SY7208	MP1541
						PAM2421			



N-Channel

GS P/N	Type	Package	VDS (V)	VGS ($\pm V$)	ID (A)	V _{DS} (V)		DIODES	Infineon/ IR	VISHAY
						min.	max.			
GSM2320K	N	SOT-23	20	8	1.45	0.3	1	DMN2310U	IRLML2402	
GSM2302	N	SOT-23	20	10	4	0.3	1	DMG2302UQ	IRLML6246	Si2302CDS
GSM3414S	N	SOT-23	20	10	5.8	0.4	0.8	DMG3414U	IRLML2502	Si2374DS
GSM2312P	N	SOT-23	20	10	6.7	0.3	0.8	DMN2024U	IRLML6244	Si2312CDS
GSM3612P	N	SOT-23	30	12	5.3	0.4	0.9	DMN3042L	IRLML6344	Si2336DS
GSM3406AS	N	SOT-23	30	20	3.5	1	2.5	DMG3406L	IRLML6346	Si2304DDS
GSM3912P	N	SOT-23	30	20	6.5	1.2	2.5	DMG3404L	IRLML0030	Si2338DS
GSM4912	N	SOT-23	40	20	5	1.2	2.5	DMN4035L	IRLML0040	Si2318CDS
GSMBSS139	N	SOT-23	60	20	0.2	0.8	1.5	DMN61D9U	BSS138N	
GSM7002K	N	SOT-23	60	20	0.5	1	2	2N7002K	2N7002	2N7002K
GSM6912	N	SOT-23	60	20	3.2	1.2	2.5		IRLML0060	Si2308CDS
GSM2308AP	N	SOT-23	60	20	6.1	1.2	2.5			
GSMBSS123	N	SOT-23	100	20	0.17	0.8	2.8	BSS123	BSS123N	
GSM0910P	N	SOT-23	100	20	2	1.2	2.5		IRLML0010	Si2328DS
GSM3912R	N	SOT-23-6L	30	20	6.5	1.2	2.5		BSL3025N	Si3456DDV
GSM02N15	N	TSOP-6	150	20	1.4	2	4			Si3440DV
GSMDS3912	N	SOP-8	30	20	9	1.2	2		IRF7403TRPBF	
GSMDS3908	N	SOP-8	30	20	15	1.2	2.5	DMN3009SSS	IRF7455TRPBF	Si4134DY
GSMDS3906	N	SOP-8	30	20	20	1.2	2.5		IRF7832TRPBF	Si4162DY
GSMDS3904	N	SOP-8	30	20	30	1.2	2.5			Si4164DY

MOSFET Cross Reference

On-Semi/ Fairchild	Nexperia	APEC/ 富鼎先進	Cystek/ 全宇昕	Sinopower/ 大中	AOS/ 萬國	NIKO-SEM/ 尼克森
		AP2308GEN				
NTR4501N	PMV30XN	AP2314GN	MTN2302N3	SM2326NSAN		PM514BA
	PMV16UN	AP2N025LN	MTA42N02N3	SM2300NSAN	AO3414	PM516BA
FDN028N20	PMV16XN		MTN2300N3		AO3416	PM5Q4BA
	PMV22XN	AP3N035N	MTN2306AN3		AO3400	PM606BA
NTR4170N	PMV37EN		MTN3K01N3		AO3406	PM506BA
FDN537N	PMV20EN		MTB030N03N3	SM2404NSAN	AO3404A	
BSS138K	NX138AK					
2N7002K	NX7002AK	AP2N7002K	MTN7002CKN3	SM7002NSAN	AO3460	PZ2N7002M
FDN86501LZ		AP6N090N		SM2460NSAN		
			MTB090N06N3			
BSS123		AP2320GN				
			MTB150N10N3		AOSS62934	
FDC8884		AP2604GY	MTN2604N6	SM2610NSC	AO6424A	PA520BA
FDC2512			MTN3440N6	SM2690NSC		
FDS8884		AP9434GM	MTA025N03Q8	SM4850NSK		
FDS8896		AP9408GM	MTN4410Q8	SM4843NSK		
FDS8870		AP9410AGM	MTB11N03Q8	SM4836NSK		
			MTB2D5N03BQ8			

N-Channel

GS P/N	Type	Package	VDS (V)	VGS (\pm V)	ID (A)	V _{DS} (V)		DIODES	Infineon/ IR	VISHAY
						min.	max.			
GSMDS4910	N	SOP-8	40	20	6.7	1.2	2.5			
GSM49B4S	N	SOP-8	40	20	7.9	1	2.5			
GSMDS4906	N	SOP-8	40	20	9	1.2	2.5		IRF7469TRPBF	
GSMDS6906	N	SOP-8	60	20	6	1.2	2.5			
GSMDS6904	N	SOP-8	60	20	10	1.2	2.5	DMT6013LSS		Si4850EY
GSM0986S	N	SOP-8	100	20	6	1.2	2.5		IRF7490TRPBF	Si4100DY
GSMDS0966	N	SOP-8	100	20	10	1	3	DMT10H025SSS	IRF7853TRPBF	Si4058DY
GSM0976S	N	SOP-8	100	20	12	1.2	2.5	DMT10H009SSS		Si4056DY
GSMDS0982	N	SOP-8	100	20	16	1	2.5			
GSMDS02N15	N	SOP-8	150	20	1.2	2	4			
GSMDS04N15	N	SOP-8	150	25	4	2	4		IRF7451TRPBF	Si4848DY

P-Channel

GS P/N	Type	Package	VDS (V)	VGS (\pm V)	ID (A)	V _{DS} (V)		DIODES	Infineon/ IR	VISHAY
						min.	max.			
GSM2301	P	SOT-23	20	10	2.8	-0.3	-1	DMG2301L	IRLML2246	Si2301CDS
GSM2313P	P	SOT-23	20	10	4.1	-0.4	-0.8	DMP2120U	IRLML6402	Si2367DS
GSM3415	P	SOT-23	20	12	4.9	-0.4	-0.9	DMP2045U	IRLML2244	Si2377EDS
GSM2309S	P	SOT-23	20	10	5.8	-0.3	-1			Si2365EDS
GSM3619K	P	SOT-23	30	12	0.9	-0.5	-1.2		IRLML5103	

MOSFET Cross Reference

On-Semi/ Fairchild	Nexperia	APEC/ 富鼎先進	Cystek/ 全宇昕	Sinopower/ 大中	AOS/ 萬國	NIKO-SEM/ 尼克森
			MTB025N04Q8			
		AP9985GM		SM4029NSK		
FDS5351		AP6N090M		SM6029NSK		
FDS5670		AP6N021M	MTB010N06RQ8	SM6012NSK		
FDS3692		AP30T10GM	MTEA0N10Q8	SM1A30NSK		
FDS3672		AP10TN030M	MTB012N10RQ8	SM1A53NHK		
FSD86140		AP8N010LM	MTD011N10RQ8	SM1A63NHK		
				SM1F15NSK		
FDS2582		AP20T15GM	MTE080N15Q8	SM1F13NSK		

On-Semi/ Fairchild	Nexperia	APEC/ 富鼎先進	Cystek/ 全宇昕	Sinopower/ 大中	AOS/ 萬國	NIKO-SEM/ 尼克森
FDN302P	NX2301P		MTP2301N3		AO3413	PM513BA
	PMV50XP	AP2P052N	MTP2305AN3		AO3419	PM505BA
NTR4101P	PMV65XP	AP2P053N	MTP3413N3	SM2413PSAN	AO3415	PM5C3BA
			MTP2317N3		AO3415A	PM597BA
		AP2315GEN				

P-Channel

GS P/N	Type	Package	VDS (V)	VGS ($\pm V$)	ID (A)	V _{th} (V)		DIODES	Infineon/ IR	VISHAY
						min.	max.			
GSM3401S	P	SOT-23	30	112	4	-0.6	-1.1	DMP3068L		Si2371EDS
GSM3611P	P	SOT-23	30	12	4.1	-0.4	-0.9	DMP3068L		Si2371EDS
GSM3911P	P	SOT-23	30	20	4.1	-1.2	-2.2	DMP3165L	IRLML9301	Si2307CDS
GSM2309KP	P	SOT-23	30	25	3.8	-1.2	-2.2	DMP3056L		
GSM3909	P	SOT-23	30	20	5.1	-1.2	-2.2			Si2343DDS
GSM4911P	P	SOT-23	40	20	2.9	-1	-2.5			
GSMBSS84	P	SOT-23	60	20	0.13	-0.8	-2.5		BSS84P	
GSM6911P	P	SOT-23	60	20	3.1	-1.2	-2.5			
GSM0953	P	SOT-23	100	20	0.84	-1.2	-2.5			
GSM02P15J	P	SOT-23	150	20	1	-2	-4			Si2325DS
GSM2307P	P	SOT-23-6L	20	10	6.5	-0.3	-1	DMP2067LVT	BSL207SP	Si3433CDV
GSM3909VP	P	SOT-23-6L	30	20	5.1	-1.2	-2.2	DMP3068LVT	BSL307SP	Si3457CDV
GSM02P15T	P	TSOP-6	150	20	1	-2	-4			Si3437DV
GSMDS2305	P	SOP-8	20	10	11	-0.3	-1		BSO203SP H	
GSMDS2603	P	SOP-8	20	12	14	-0.3	-1	DMP2008USS	BSO201SP H	Si4403DDY
GSMDS3911	P	SOP-8	30	20	5.5	-1	-2.5		IRF9335TRPBF	
GSMDS3907	P	SOP-8	30	20	8	-1	-2.5		BSO303SP H	
GSM4435S	P	SOP-8	30	20	9	-1	-2		IRF9333TRPBF	Si4431CDY
GSMDS3903	P	SOP-8	30	20	13	-1	-2.5		IRF9328TRPBF	Si4435FDY
GSM3983S	P	SOP-8	30	20	16	-1	-2.5		IRF9317TRPBF	Si4103DY

MOSFET Cross Reference

On-Semi/ Fairchild	Nexperia	APEC/ 富鼎先進	Cystek/ 全宇昕	Sinopower/ 大中	AOS/ 萬國	NIKO-SEM/ 尼克森
NTR4171P		AP3P080N	MTP3401N3	SM2421PSAN	AO3401A	PM557BA
NTR4171P		AP3P080N	MTP3401N3	SM2421PSAN	AO3401A	PM557BA
FDN360P		AP3P090N	MTE040P03N3	SM2409PSAN	AO3407	PM561BA
		AP2321GN	MTB040P04N3	SM2319PSAN		PM569BA
BSS84	BSS84					
		AP6P250N	MTB080P06N3			
FDN86265P			MTE800P15N			
FDC604P	PMN30XP	AP2P052Y	MTP2603G6	SM2613PSC	AO6409A	PA597BA
NTGS4111P		AP2605GY	MTP658N6	SM2609PSC	AO6405	P5103EAG
		AP15TP1R0Y	MTEF1P15AN6			
FDS6576		AP9620GM	MTA035P02Q8			
FDS4465			MTP4463Q8			
FDS9435A			MTP9435Q8			
		AP3P028LM				
FDS4435BZ		AP4435GM	MTP9435BDYAQ8	SM4310PSK	AO4435	PV551BA
FDS6679		AP3P010M	MTA7D0P03Q8			
FDS6673BZ			MTB9D0P03Q8			

P-Channel

GS P/N	Type	Package	VDS (V)	VGS ($\pm V$)	ID (A)	V _{th} (V)		DIODES	Infineon/IR	VISHAY
						min.	max.			
GSMDS4903	P	SOP-8	40	20	10	-1	-2.5			Si4447ADY
GSM6903S	P	SOP-8	60	20	8.5	-1	-2.5			
GSM0903S	P	SOP-8	100	20	2.9	-1.2	-2.5			Si4590DY

Dual Enhancement Mode

GS P/N	Type	Package	VDS (V)	VGS ($\pm V$)	ID (A)	V _{th} (V)		DIODES	Infineon/IR	VISHAY
						min.	max.			
GSM2218R	N/N	SOT-23-6L	20	10	3.6	0.3	1			Si3900DV
GSM3816S	N/N	SOP-8	30	20	5.3	1	2.2		IRF7303TRPBF	Si4936CDY
GSMDS3810	N/N	SOP-8	30	20	10	1.2	2.5		IRF7907TRPBF	Si4214DDY
GSMDS6808	N/N	SOP-8	60	20	10	1.2	2.5		IRF7351TRPBF	
GSMDS3807	P/P	SOP-8	30	20	7	-1.2	-2.5		IRF9362TRPBF	Si4925DDY
GSM6601	N/P	TSOP-6	30	12	3.8/2.5	0.4/-0.4	1.2/-1.2	DMC3060LVT		Si3590DV
GSM6604	N/P	TSOP-6	20	12	3.5/3	0.3/-0.5	0.8/-1	DMC2053UVT		Si3585CDV
GSM3712S	N/P	SOP-8	30	20	8/5.5	1.2/-1.2	2.5/-2.5		IRF9389TRPBF	Si4532CDY
GSMDS3710	N/P	SOP-8	30	20	10/6.5	1.2/-1	2.5/-2.5			
GSM4701S	N/P	SOP-8	40	20	6.7/7.2	1/-1	2.5/-2.5			Si4599DY
GSM6701S	N/P	SOP-8	60	20	5.9/4.7	1.2/-1.2	2.5/-2.5			Si4559ADY
GSM0744S	N/P	SOP-8	100	20	2.1/1.7	1.2/-1.2	2.5/-2.5			

MOSFET Cross Reference

On-Semi/ Fairchild	Nexperia	APEC/ 富鼎先進	Cystek/ 全宇昕	Sinopower/ 大中	AOS/ 萬國	NIKO-SEM/ 尼克森
FDS4141		AP4P018M	MTD020P04Q8			
FDS8935		AP18P10GM				

On-Semi/ Fairchild	Nexperia	APEC/ 富鼎先進	Cystek/ 全宇昕	AOS/ 萬國	NIKO-SEM/ 尼克森
FDC6305N					
		AP9936GM			
FDS8978		AP4224GM	MTB17A03Q8		
		AP9976GM	MTB60A06AQ8		
FDS4935A		AP4957GM	MTDP4953Q8		
			MTC6601N6	AO6601	
FDC6420C			MTC6604N6	AO6604	P6002OAG
FDS8958A		AP3700M	MTC8958Q8		
		AP3C010M			
FDS4897AC		AP4530GM			
FDS4559		AP4575GM	MTC4506Q		
		AP5521GM	MTBA5C10AQ8		

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