

GSDSS22FL Series

Surface Mount Schottky Rectifiers

Product Description

Reverse Voltage 20V to 200V Forward Current 2.0A

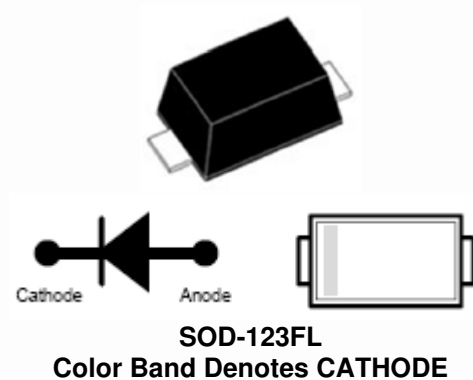
Features

- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Ultra high-speed switching
- Silicon epitaxial planar chip, metal silicon junction.

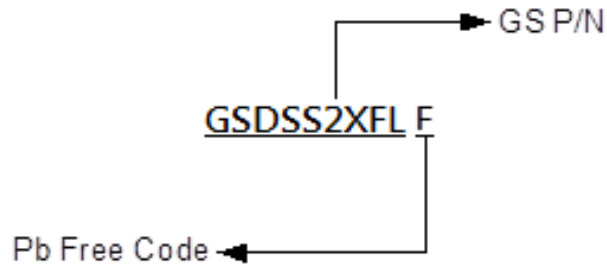
Mechanical Data

- Case : Molded plastic, SOD-123FL
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
- Polarity : Color band denotes cathode end Dimensions in inchs and (millimeters)

Packages Information



Ordering Information



Part Number	Package	Quantity
GSDSS22FLF	SOD-123FL	3,000 PCS
GSDSS24FLF	SOD-123FL	3,000 PCS
GSDSS26FLF	SOD-123FL	3,000 PCS
GSDSS210FLF	SOD-123FL	3,000 PCS
GSDSS215FLF	SOD-123FL	3,000 PCS
GSDSS220FLF	SOD-123FL	3,000 PCS

Marking Information

P/N	Part Marking	Package
GSDSS22FLF	22	SOD-123FL
GSDSS24FLF	24	SOD-123FL
GSDSS26FLF	26	SOD-123FL
GSDSS210FLF	210	SOD-123FL
GSDSS215FLF	215	SOD-123FL
GSDSS220FLF	220	SOD-123FL

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60HZ, resistive or inductive load.

For capacitive load, derate current by 20%.

Conditions	Symbols	GSDSS22FLF	GSDSS24FLF	GSDSS26FLF	Units
Maximum Recerrent Peak Reverse Voltage	V_{RRM}	20	40	60	Volts
Maximum RMS Voltage	V_{RMS}	14	28	42	
Maximum DC Blocking Voltage	V_R	20	40	60	
Maximum Average Forward Rectified Current	$I_{(AV)}$	2.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0			Amp
Maximum Forward Voltage at 2.0A $T_A=25^\circ\text{C}$	V_F	0.45	0.50	0.70	Volts
Operating Junction Temperature Range	T_J	-55 to +150			$^\circ\text{C}$
Conditions	Symbols	GSDSS210FLF	GSDSS215FLF	GSDSS220FLF	Units
Maximum Recerrent Peak Reverse Voltage	V_{RRM}	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	70	105	140	
Maximum DC Blocking Voltage	V_R	100	150	200	
Maximum Average Forward Rectified Current at $T_L=90^\circ\text{C}$	$I_{(AV)}$	2.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0			Amp
Maximum Forward Voltage at 2.0A $T_A=25^\circ\text{C}$	V_F	0.81	0.87	0.90	Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	0.1 20			mAmp
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	85.0			$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 to +150	-55 to +175		$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150			

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

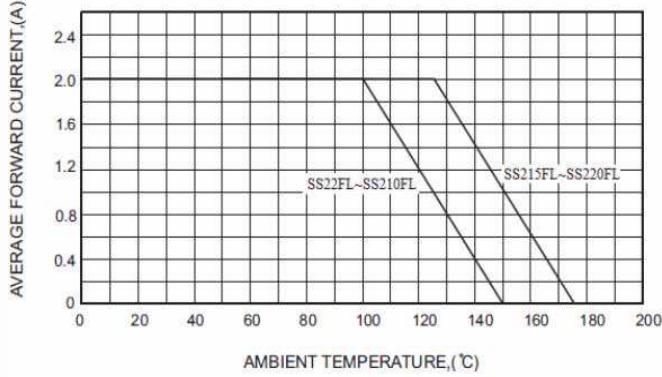


FIG.2-TYPICAL FORWARD CHARACTERISTICS

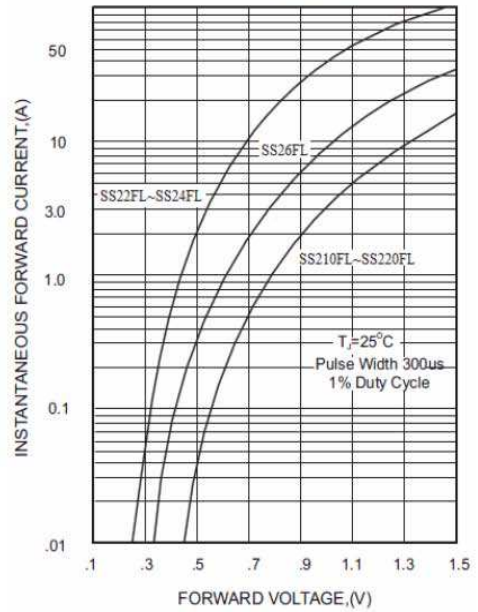


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

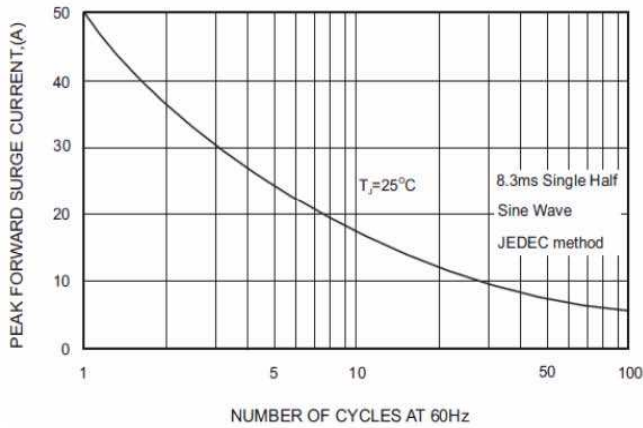


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

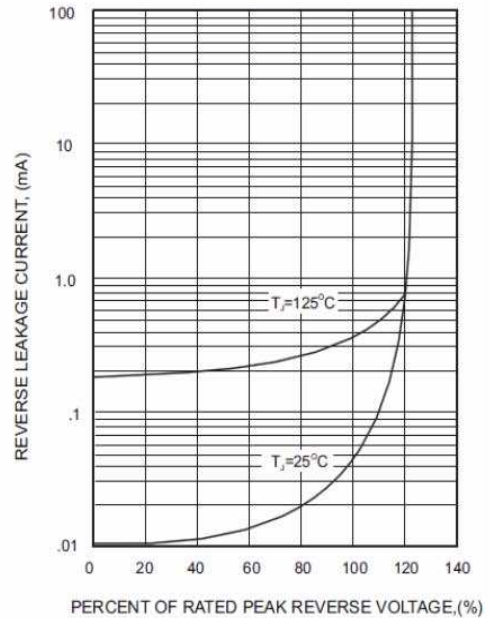
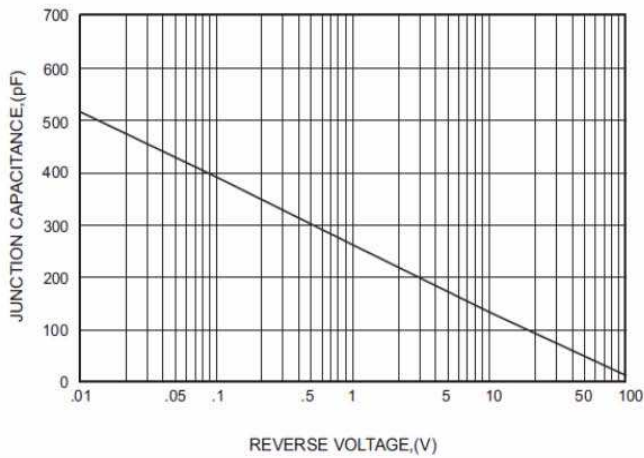
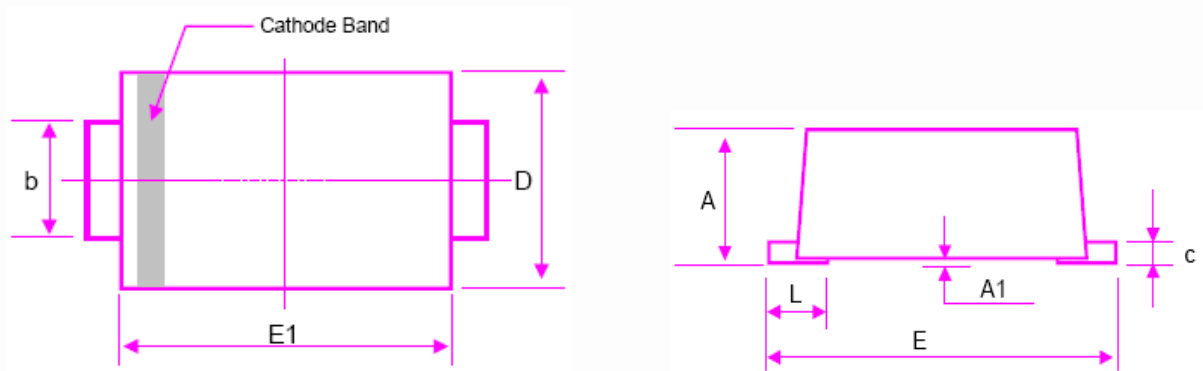


FIG.4-TYPICAL JUNCTION CAPACITANCE



Package Dimension

SOD-123FL PLASTIC PACKAGE









Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.12	1.18	0.044	0.046
A1	0.00	0.10	0.000	0.004
b	0.60	1.00	0.024	0.039
c	0.05	0.25	0.002	0.010
D	1.50	2.00	0.059	0.079
E	3.50	3.90	0.138	0.154
E1	2.50	2.90	0.098	0.114
L	0.50	1.10	0.020	0.043

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