

GSD5004SJZF

Switching Diode

Product Description

Switching Diode 400V and 300mA

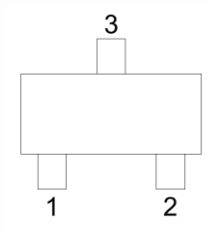
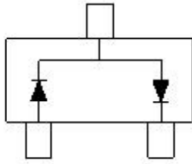
Features

- Fast Switching Speed.
- Low Reverse Leakage Current

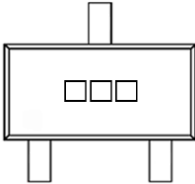
Mechanical Data

- SOT-23 Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- RoHS Compliant and Halogen Free

Package & Pin Assignment

SOT-23			Equivalent Circuit		
					
Pin	Symbol	Description	Pin	Symbol	Description
1	A1	Anode 1	3	Common	Cathode 1 & Anode 2
2	K2	Cathode 2			

Ordering and Marking Information

Ordering Information			
Part Number	Package	Marking Code	Quantity / Reel
GSD5004SJZF	SOT-23	KJB	3,000 PCS
GSD5004 1 2 F			
<ul style="list-style-type: none"> - Product Code: GSD5004 - Circuit Type Code: 1 is S - Package Code: 2 JZ for SOT-23 			
<ul style="list-style-type: none"> - Green Level: - F for RoHS Compliant and Halogen Free 			
Marking Information			
	<ul style="list-style-type: none"> - Product Code: is KJB 		

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Symbol	Parameter	Value	Units	
V _{RRM}	Repetitive Peak Reverse Voltage	400	V	
V _{RM}	Non-Repetitive Peak Reverse Voltage	350	V	
V _{R(RMS)}	RMS Reverse Voltage	247	V	
I _F	Forward Continuous Current	300	mA	
I _{FRM}	Repetitive Peak Forward Current	625	mA	
I _{FSM}	Non-Repetitive Peak Forward Surge Current	t=1.0μs	5	A
		t=1.0ms	3	A
P _D	Power Dissipation	350	mW	
R _{θJA}	Thermal Resistance from Junction to Ambient	357	°C/W	
T _J	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 to +150	°C	

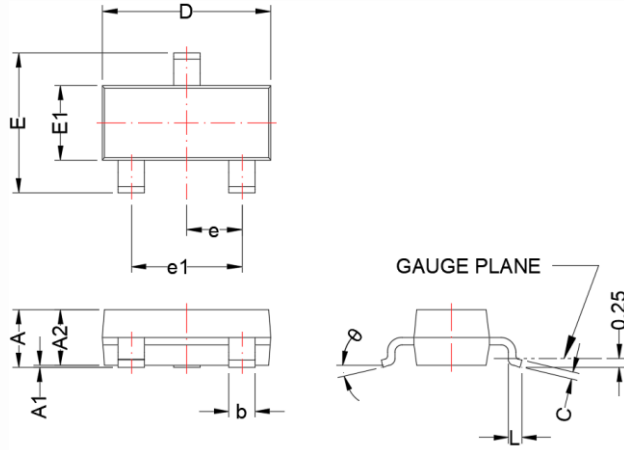
These ratings are limiting Values above which the serviceability of the diode may be impaired.

Electrical Characteristics (T_A=25°C unless otherwise specified)

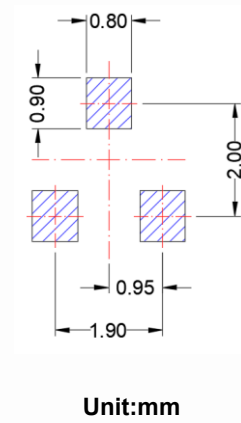
Symbol	Parameter	Test Condition	Min	Max	Units
V _F	Forward Voltage	I _F =20mA		0.93	V
		I _F =100mA		1.10	V
		I _F =200mA		1.29	V
V _R	Reverse Breakdown Voltage	I _R =150μA	400		V
I _R	Reverse Current	V _R = 240V		150	nA
		V _R = 360V		5.0	μA
C _T	Capacitance	V _R = 0V, f = 1MHz		2	pF
t _{rr}	Reverse Recovery Time	I _F = I _R =30mA, I _{RR} = 0.1x I _R R _L = 100Ω		50	ns

SOT-23

Package Dimension



Recommended Land Pattern



Unit:mm

Dimensions				
Symbol	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	0.75	1.17	0.030	0.046
A1	0.01	0.15	0.000	0.006
A2	0.70	1.02	0.028	0.040
b	0.30	0.50	0.012	0.020
c	0.08	0.20	0.003	0.008
D	2.80	3.04	0.110	0.120
E	2.10	2.64	0.083	0.104
E1	1.20	1.40	0.047	0.055
e	0.95 BSC		0.037 BSC	
e1	1.90 BSC		0.075 BSC	
L	0.30	0.60	0.012	0.024
θ	0°	8°	0°	8°





NOTE:



Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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