GSDBAV99J3F

Switching Diode

Product Description

Reverse Voltage: 75V
Forward Current 150mA

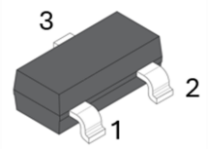
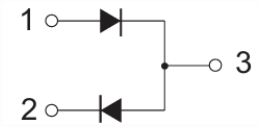
Features

- High Speed Switching
- Connected in Series

Mechanical Data

- SOT-323 Package
- RoHS Compliant and Halogen Free

Package and Pin Assignment

SOT-323	Equivalent Circuit
	

Pin	Symbol	Description	Pin	Symbol	Description
1	A1	Anode 1	**3**	C	Common
2	K2	Cathode 2			

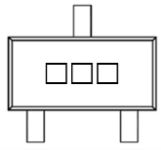
Ordering and Marking Information

GS P/N	Package	Marking	Quantity / Reel
GSDBAV99J3F	SOT-323	KJG or A7	3,000PCS

GSDBAV99J3F

- **Product Code:** GSDBAV99
- **Package Code:** **J3** for SOT-323
- **Green Level:** **F** for RoHS Compliant and Halogen Free

Marking Information



- **Product Code:** KJG or A7

Absolute Maximum Ratings (T_A=25ºC unless otherwise specified)

Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	75	V
I_F	Forward Current	150	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance-Junction to Ambient	625	ºC/W
T_J	Operating Junction Temperature Range	-55 to +150	ºC
T_{STG}	Storage Temperature Range	-55 to +150	ºC
T_L	Lead Soldering Temperature (10s)	260	ºC

Electrical Characteristics (T_A=25ºC unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{BR}	Reverse Breakdown Voltage	I_R= 100μA-	75			V
I_R	Reverse Leakage Current	V_R=75V			2.5	μA
V_F	Forward Voltage	I_F=1mA			715	mV
		I_F=10mA			855	
		I_F=50mA			1000	
		I_F=150mA			1250	
C_J	Junction Capacitance	V_R=0V, f=1MHz			2	pF
t_{rr}	Reverse Recovery Time	I_F=I_R=10mA Irr=0.1×I_R, R_L=100Ω			4	ns

Typical Characteristics (T_A=25℃ unless otherwise specified)

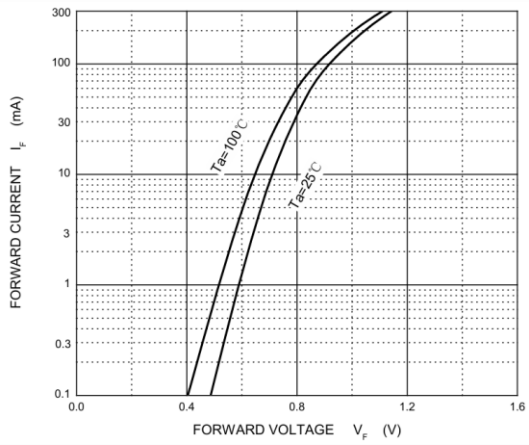


FIG 1. Forward Characteristic

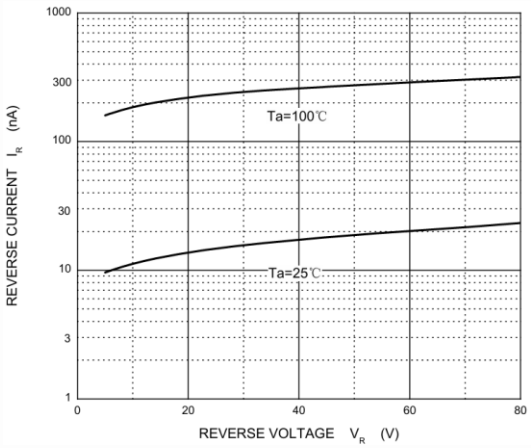


FIG 2. Reverse Characteristic

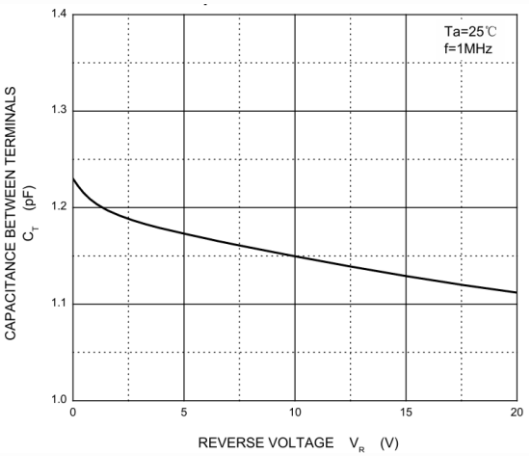


FIG 3. Capacitance Characteristic

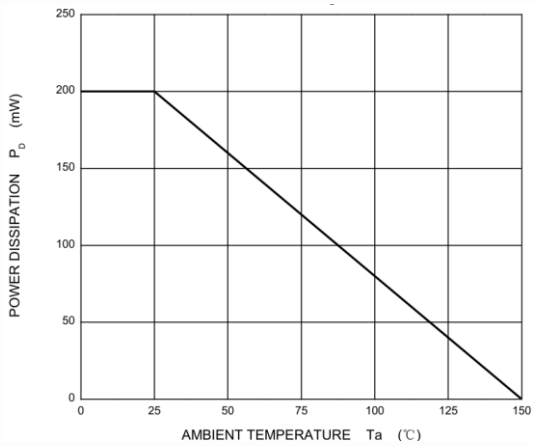
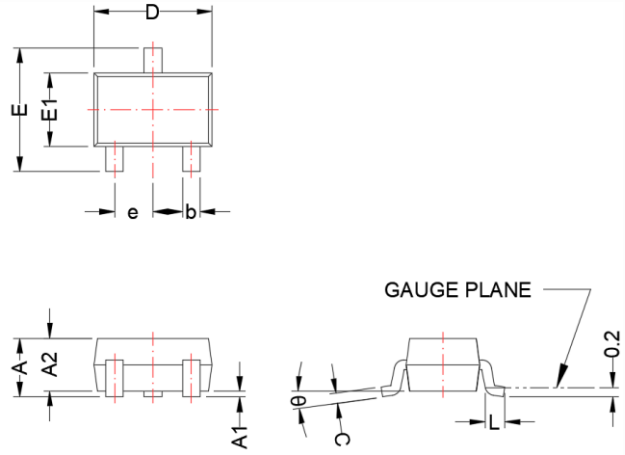


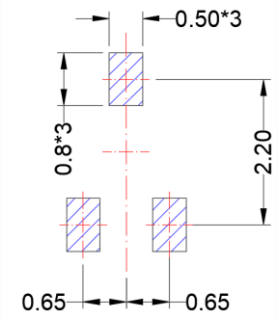
FIG 4. Power Derating Curve

SOT-323

Package Dimension



Recommended Land Pattern



Unit:mm

Dimensions				
Symbol	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	0.80	1.10	0.031	0.043
A1	0.00	0.10	0.000	0.004
b	0.80	1.00	0.031	0.039
c	0.20	0.40	0.008	0.016
D	0.08	0.26	0.003	0.010
E	1.80	2.20	0.071	0.087
E1	1.80	2.40	0.071	0.094
e	0.65 BSC		0.026 BSC	
L	0.26	0.45	0.010	0.018
θ	0°	8°	0°	8°

NOTE:

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

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