

GSDSB0540D3F

Schottky Diode

Product Description

Schottky Barrier Diode 40V and 500mA

Features

- Low Forward Voltage

Mechanical Data

- SOD-323 Package
- RoHS Compliant and Halogen Free

Package and Pin Assignment

SOD-323		Equivalent Circuit	
			
Pin	Description	Pin	Description
1	Cathode	2	Anode

Ordering and Marking Information

GS P/N	Package	Marking	Quantity / Reel
GSDSB0540D3F	SOD-323	• SF	3,000PCS
GSDSB0540D3F - Product Code: GSDSB0540 - Package Code: D3 for SOD-323 - Green Level: F for RoHS Compliant and Halogen Free			
Marking Information			
		- Product Code: □□ is SF - Band denotes Cathode end	

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

Symbol	Parameter	Value	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	40	V
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _o	Forward Current	500	mA
I _{FSM}	Non-Repetitive Peak Forward Current (8.3ms single half sin-wave)	5	A
P _D	Power Dissipation	200	mW
T _J	Junction Temperature	125	°C
T _{STG}	Storage Temperature Range	-40 to +125	°C

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{BR}	Breakdown Voltage	I _R =20μA	40			V
V _F	Forward Voltage	I _F =500mA			0.51	V
I _R	Reverse Current	V _R =40V			20	μA
C _J	Junction Capacitance	V _R =0V, f=1MHz			170	pF

Typical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

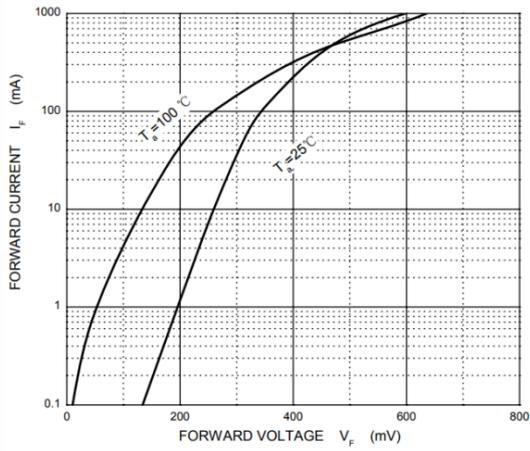


FIG.1 Forward Characteristics

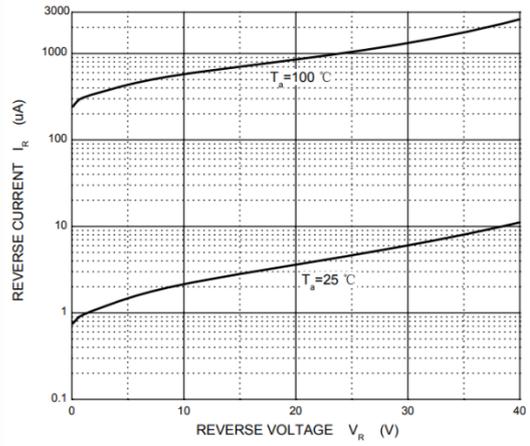


FIG.2 Reverse Characteristics

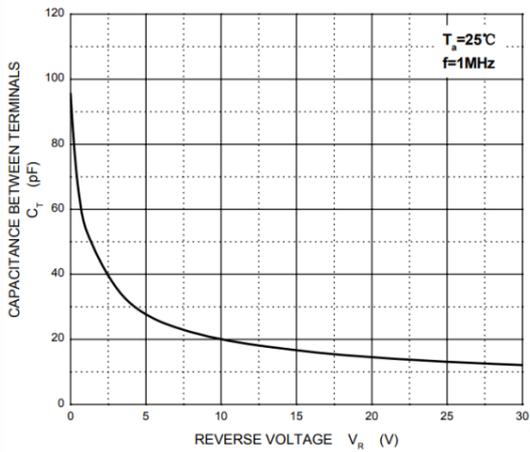


FIG.3 Capacitance Characteristics

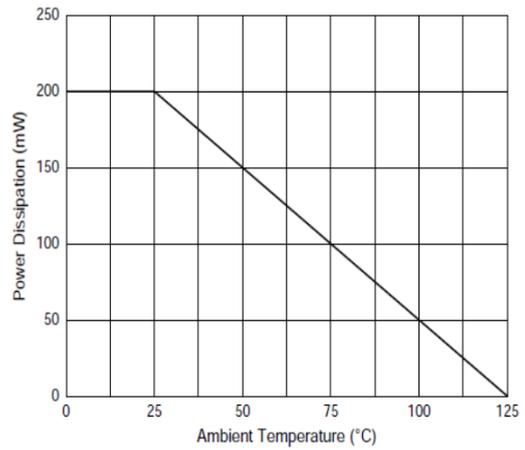
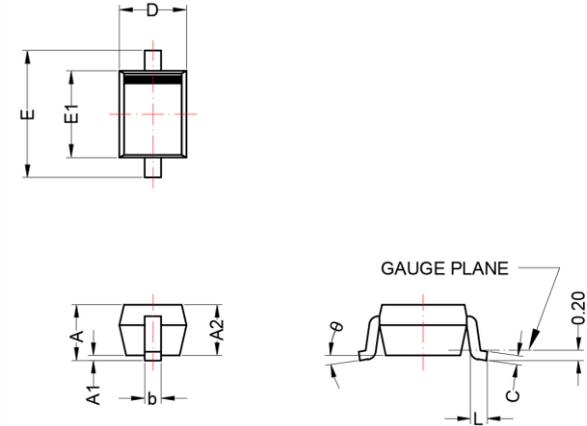


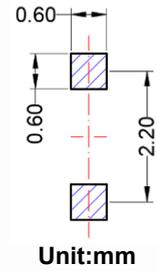
FIG.4 Power Derating Curve

SOD-323

Package Dimension



Recommended Land Pattern



Dimensions

SYMBOL	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	-	1.10	-	0.043
A1	0.00	0.10	0.000	0.004
A2	0.80	-	0.031	-
b	0.25	0.40	0.010	0.016
c	0.08	0.25	0.003	0.010
D	1.15	1.40	0.045	0.055
E	2.30	2.75	0.091	0.108
E1	1.40	1.80	0.055	0.071
L	0.08	-	0.003	-
θ	0°	8°	0°	8°

NOTE:

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

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