

GSDS5014D4F

Schottky Diode

Product Description

Schottky Barrier Diode 40V and 100mA

Features

- Low Forward Voltage

Mechanical Data

- SOD-323FL Package
- RoHS Compliant and Halogen Free

Package and Pin Assignment

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

Ordering and Marking Information

GS P/N	Package	Marking	Quantity / Reel
GSDS5014D4F	SOD-323FL	CF	3,000PCS
GSDS5014D4F			
- Product Code: GSDS5014	- Package Code: D4 for SOD-323FL	- Green Level: F for RoHS Compliant and Halogen Free	
Marking Information			
	- Product Code: □□ is CF		
	- Band denotes Cathode end		

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

Symbol	Parameter	Value	Unit
V _{RM}	Reverse Voltage (repetitive peak)	45	V
V _R	Reverse Voltage (DC)	40	V
I _O	Forward Current	100	mA
I _{FSM}	Non-Repetitive Peak Forward Current (8.3ms single half sin-wave)	1	A
P _D	Power Dissipation	200	mW
T _J	Junction Temperature	125	°C
T _{STG}	Storage Temperature Range	-55 to +125	°C

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _F	Forward Voltage	I _F =10mA			0.34	V
		I _F =100mA			0.55	
I _R	Reverse Current	V _R =10V			30	μA
C _J	Junction Capacitance	V _R =10V, f=1MHz		5		pF

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

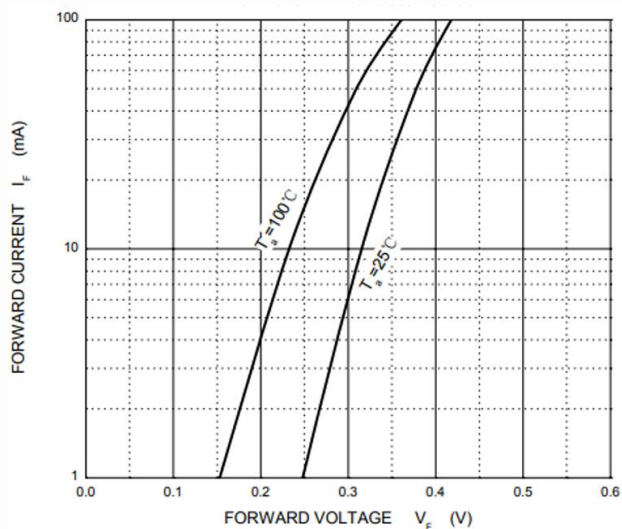


FIG.1 Forward Characteristics

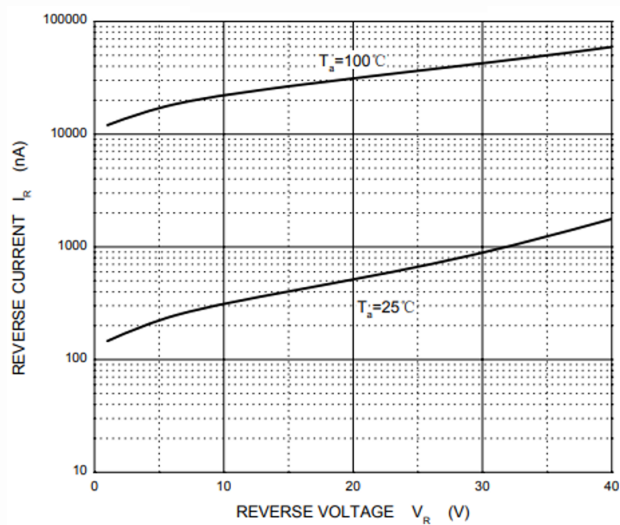


FIG.2 Reverse Characteristics

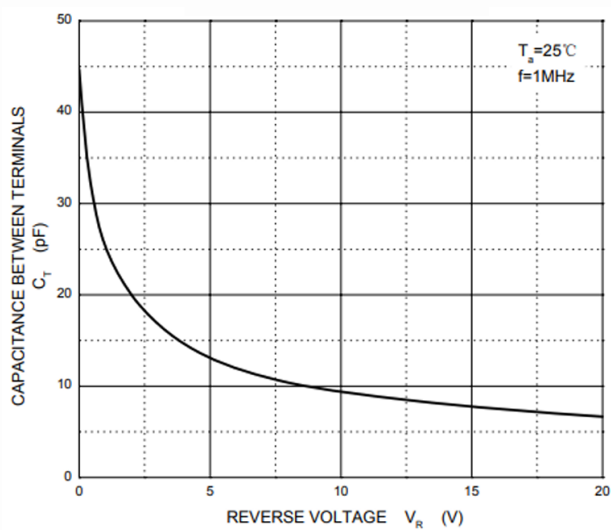


FIG.3 Capacitance

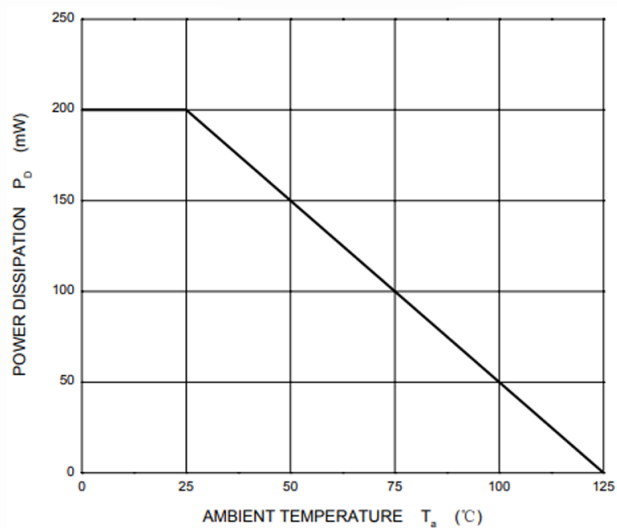
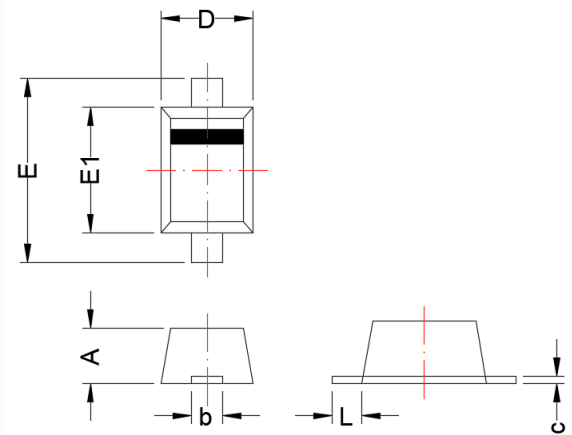


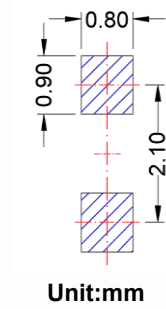
FIG.4 Power Derating Curve

SOD-323FL

Package Dimension



Recommended Land Pattern



Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	0.60	1.10	0.023	0.043
b	0.25	0.60	0.010	0.024
c	0.05	0.26	0.002	0.010
D	1.15	1.35	0.045	0.053
E	2.30	2.70	0.091	0.106
E1	1.60	1.80	0.063	0.071
L	0.30	0.50	0.012	0.020

NOTE:

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

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