

GSDSE034D5F

Schottky Diode

Product Description

Schottky Barrier Diode 40V and 30mA


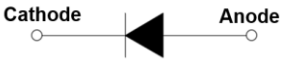
Features

- Low Forward Voltage


Mechanical Data

- SOD-523. Package
- RoHS Compliant and Halogen Free

Package and Pin Assignment

SOD-523		Equivalent Circuit	
			
Pin	Description	Pin	Description
1	Anode	2	Cathode

Ordering and Marking Information

GS P/N	Package	Marking	Quantity / Reel
GSDSE034D5F	SOD-523	4B	3,000PCS
GSDSE034D5F			
- Product Code: GSDSE034	- Package Code: D5 for SOD-523	- Green Level: F for RoHS Compliant and Halogen Free	
Marking Information			
	- Product Code: □□ is 4B		
	- Band denotes Cathode end		

GSDSE034D5F

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

Symbol	Parameter	Value	Unit
V _{RM}	Peak Reverse Voltage	40	V
V _R	Reverse Voltage	30	V
I _F	Forward Current	30	mA
I _{FSM}	Non-Repetitive Peak Forward Current (8.3ms single half sin-wave)	200	mA
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 =1mA			0.37	V
I _R	Reverse Current	V _R =30V			0.5	μA
C _J	Junction Capacitance	V _R =1V, f=1MHz			2.5	pF

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

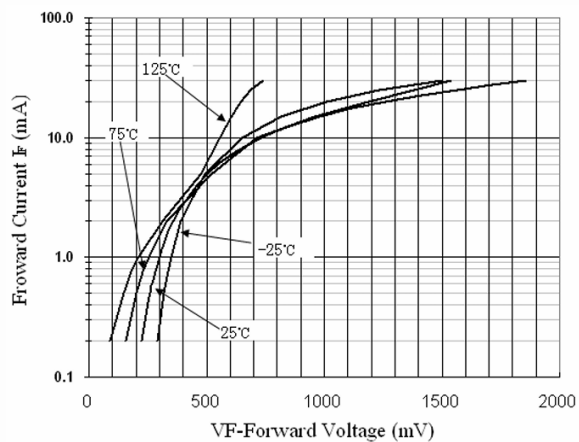


Fig.1 Forward Characteristics

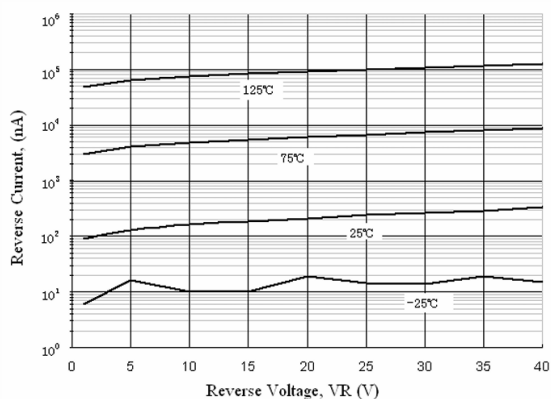


Fig.2 Reverse Characteristics

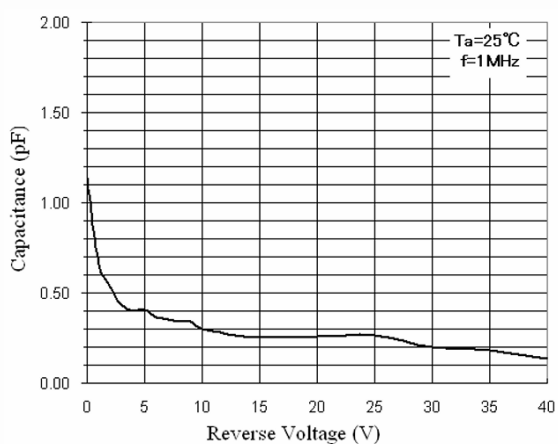
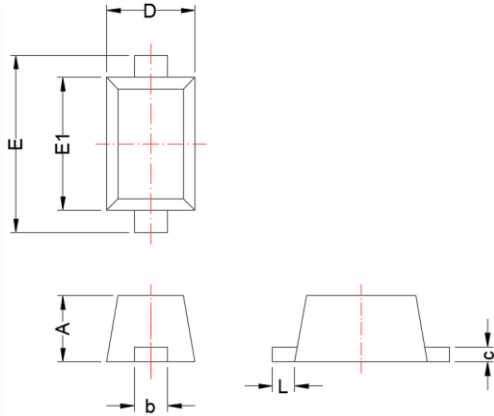


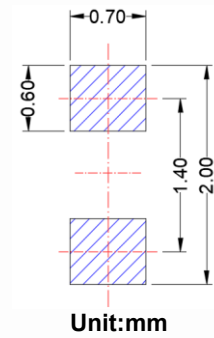
Fig.3 Capacitance

SOD-523

Package Dimension



Recommended Land Pattern



Dimensions				
Symbol	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	0.50	0.77	0.020	0.030
b	0.25	0.40	0.010	0.016
c	0.07	0.20	0.003	0.008
D	0.70	0.90	0.028	0.035
E	1.50	1.70	0.059	0.067
E1	1.10	1.30	0.043	0.051
L	0.20 REF.		0.008 REF	





NOTE:



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

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