

GSD1SS400D5F

Switching Diode

Product Description

Switching Diode 80V and 100mA

Features

- Fast Switching Speed.
- Low Reverse Leakage Current

Mechanical Data

- SOD-523 Package
- RoHS Compliant and Halogen Free

Package & Pin Assignment

SOD-523			Equivalent Circuit		
					
Pin	Symbol	Description	Pin	Symbol	Description
1	K	Cathode	2	A	Anode

Ordering and Marking Information

Ordering Information			
Part Number	Package	Marking Code	Quantity / Reel
GSD1SS400D5F	SOD-523	A	8,000 PCS
GSD1SS400 1 F - Product Code: GSD1SS400 - Package Code: 1 is D5 for SOD-523 - Green Level: F for RoHS Compliant and Halogen Free			
Marking Information			
	- Product Code: is A *Band indicates Cathode Side		

GSD1SS400D5F

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

Symbol	Parameter		Value	Units
V _{RM}	Peak Reverse Voltage		90	V
V _R	DC Reverse Voltage		80	V
I _F	Forward Continuous Current		225	mA
I _O	Average Rectified Output Current		100	mA
I _{Surge}	Surge Current	t=1s	500	mA
P _D	Power Dissipation		150	mW
R _{ΘJA}	Thermal Resistance from Junction to Ambient		833	°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 =100mA		1.2	V
I _R	Reverse Current	V _R = 80V		0.1	μA
C _T	Capacitance	V _R = 0.5V, f = 1MHz		3	pF
t _{rr}	Reverse Recovery Time	I _F = I _R =10mA, I _{RR} = 0.1x I _R R _L = 100Ω		4	ns

Typical Characteristics

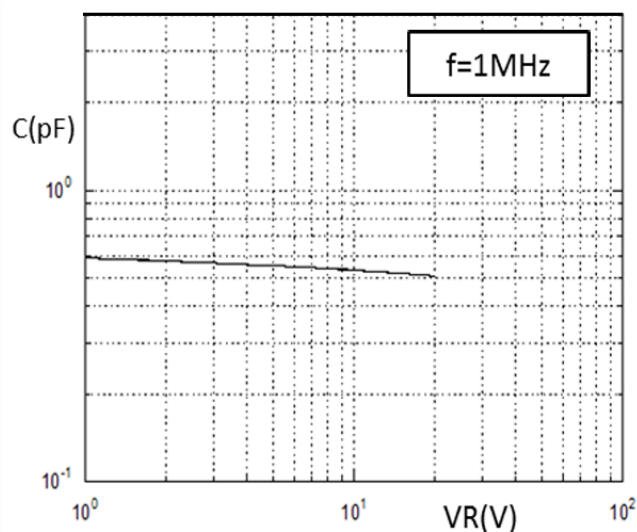
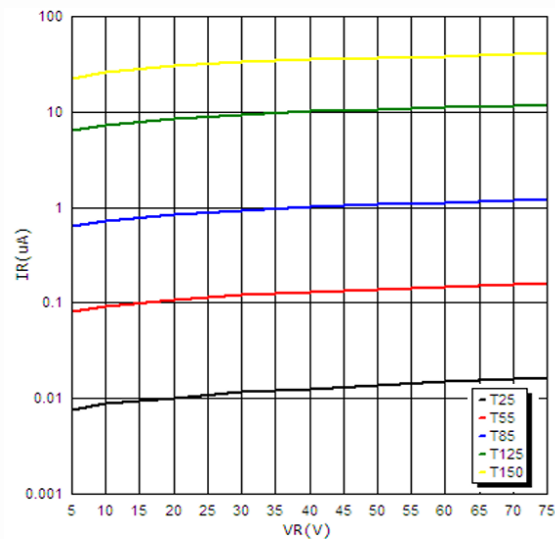
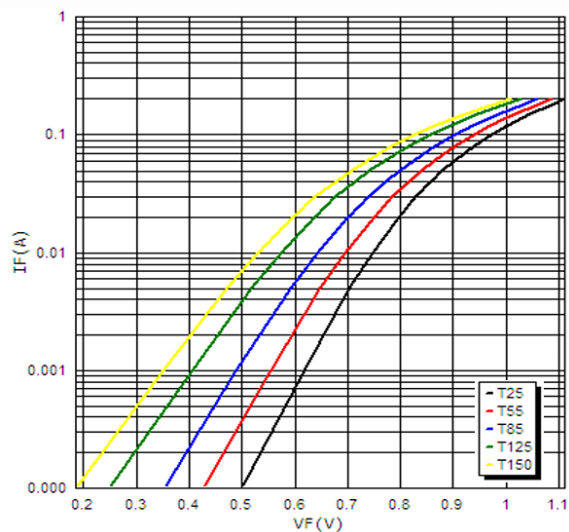
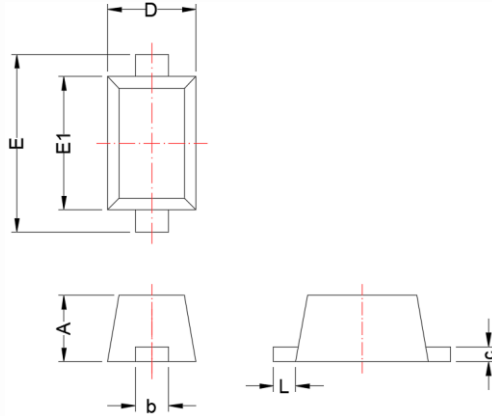


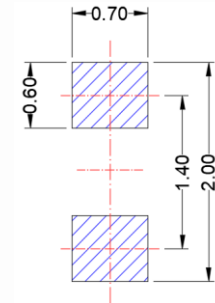
Fig. 3 Capacitance Characteristics

SOD-523

Package Dimension



Recommended Land Pattern



Unit:mm

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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