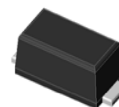


GSGP0230SD thru GSGP0240SD

Surface Mount Schottky Rectifier
Reverse Voltage 30-40V Forward Current 2A

Features

- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile, typical thickness 1.0mm



**Package: eSGP
(SOD-323F)**



**RoHS
COMPLIANT**

Applications

For use in fast switching in RF module, lighting, cell phone, portable devices, power supply and other consumer applications.

Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	SGP0230SD	SGP0240SD	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	40	V
Maximum RMS Voltage	V_{RMS}	21	28	V
Maximum DC Blocking Voltage	V_{DC}	30	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0		A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I_{FSM}	40		A
Operating Junction Temperature Range	T_J	- 55 to + 150		°C
Storage Temperature Range	T_{STG}	- 55 to + 150		°C

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

Parameter	Test Conditions	Symbol	SGP0230SD	SGP0240SD	Unit
Instantaneous Forward Voltage	$I_F=2A$	V_F	0.55		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	I_R	0.1		mA
Typical Junction Capacitance	4.0 V, 1 MHz	C_J	120		pF
Typical Thermal Resistance	Juntion to Mount	$R_{\theta JM}^{1)}$	60		°C/W

Note:1) The thermal resistance from junction to mount, mounted on P.C.B with 5×5mm copper pads, 2 OZ, FR4 PCB

Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

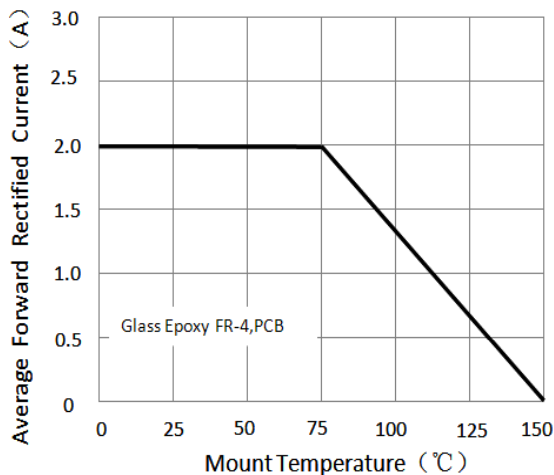


Figure 1. Forward Current Derating Curve

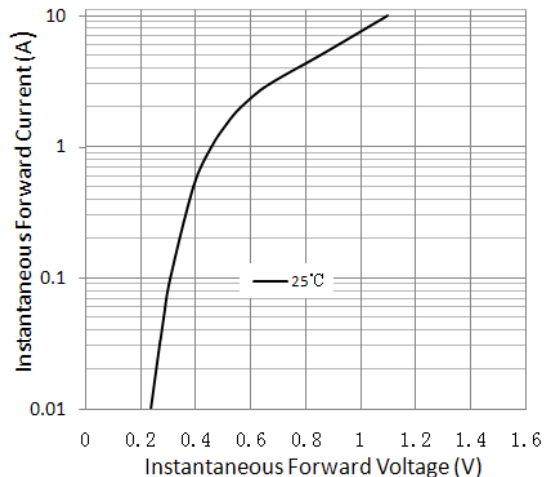


Figure 2. Typical Instantaneous Forward Characteristics

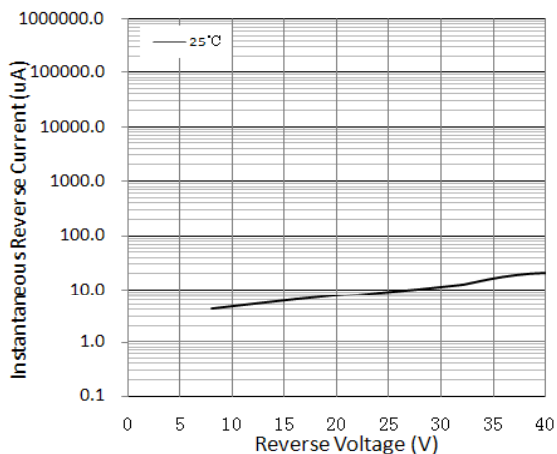


Figure 3. Typical Reverse Characteristics

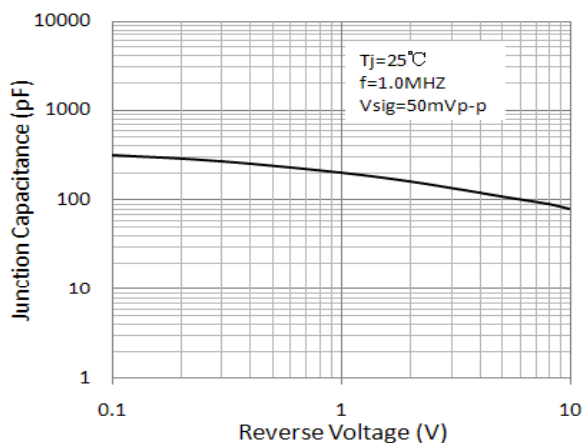


Figure 4. Typical Junction Capacitance

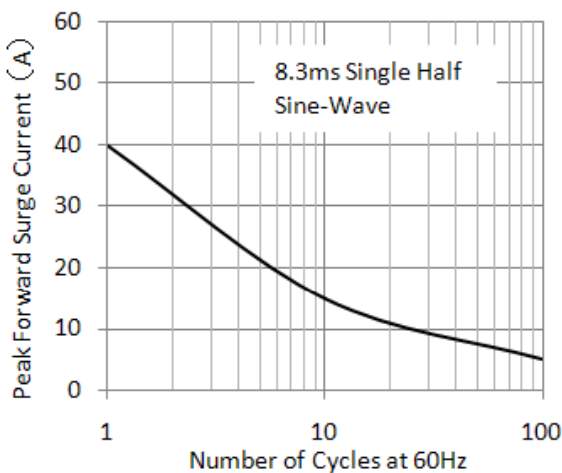


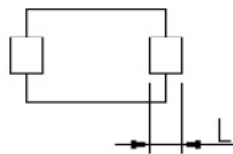
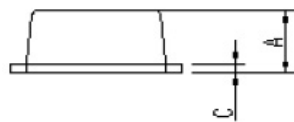
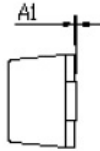
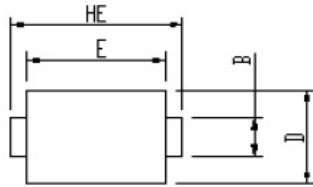
Figure 5. Maximum Non-Repetitive Peak Forward Surge Current

GSGP0230SD thru GSGP0240SD

Surface Mount Schottky Rectifier
Reverse Voltage 30-40V Forward Current 2A

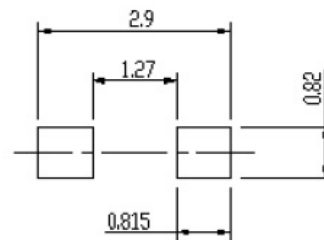
Package Outline Dimensions

eSGP (SOD-323F)



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
B	0.5	0.7	0.020	0.028
C	0.1	0.25	0.004	0.010
D	1.4	1.6	0.055	0.063
E	2	2.2	0.079	0.087
L	0.35	0.65	0.014	0.026
HE	2.4	2.8	0.094	0.110

Soldering footprint



Packing Information

Packing quantities

3000 pcs/Reel, 40 Reels/Box, 8mm Tape, 7" Reel

Tape & Reel Specification

