

GSGP0230S thru GSGP0240S

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)



Applications

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

Maximum Ratings (T_A = 25°C unless otherwise noted)

Parameter	Symbol	GSGP0230S	GSGP0240S	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		Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	10		Α
Operating Junction and Storage Temperature Range	T_J , T_{STG}	- 55 to + 150		°C

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

Parameter	Test Conditions	Symbol	GSGP0230S	GSGP0240S	Unit
Maximum Instantaneous Forward Voltage	I _F =2A	V _F	0.62		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	1		mA
Typical Junction Capacitance	4.0 V, 1 MHz	C_{J}	120		рF
Typical Thermal Resistance ¹⁾	Junction to Mount	$R_{ hetaJM}$	60		°C/W

Note1:The thermal resistance from junction to mount, mounted on P.C.B with 5×5mm copper pads, 2 OZ, FR4 PCB



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Ratings and Characteristics Curves (T_A = 25°C unlessotherwise noted)

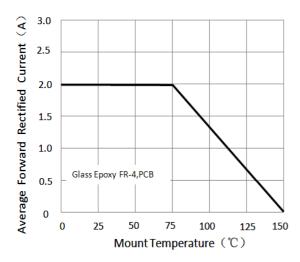


Figure 1. Forward Current Derating Curve

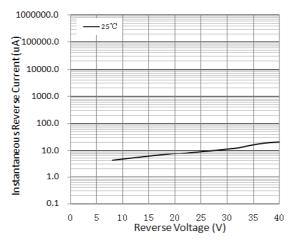


Figure 3. Typical Reverse Characteristics

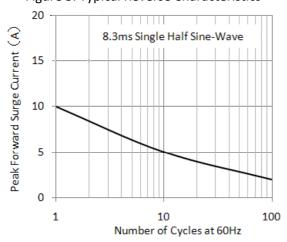


Figure 5.Maximum Non-Repetitive Peak Forward Surge Current

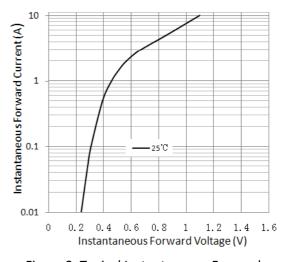


Figure 2. Typical Instantaneous Forward Characteristics

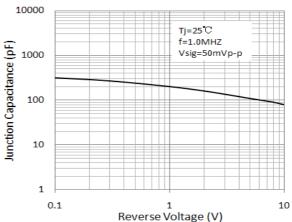


Figure 4. Typical Junction Capacitance

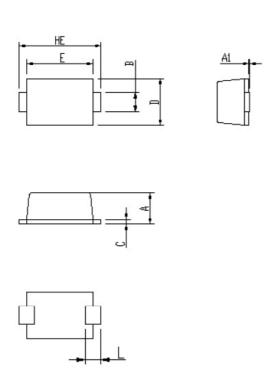


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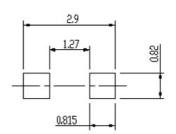
Package Outline Dimensions

eSGP (SOD-323F)



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
Α	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
В	0.5	0.7	0.020	0.028
С	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

