



SGPD220S thru SGPD2BS

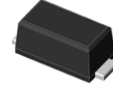
Surface Mount Schottky Rectifier
Reverse Voltage 20~100V Forward Current 0.2A

Features

- Low VF Schottky barrier diodes
- Very low profile - typical height of 1.0 mm
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition



RoHS
COMPLIANT



eSGP(SOD-323F)

Typical Applications

For use of fast swiching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings (TA = 25 °C unless otherwise noted)						
Parameter	Symbol	SGPD220S	SGPD240S	SGPD260S	SGPD2BS	Unit
Maximum repetitive peak reverse voltage	VRRM	20	40	60	100	V
Maximum RMS voltage	VRMS	14	28	42	70	V
Maximum DC blocking voltage	VDC	20	40	60	100	V
Maximum average forward rectified current	IF(AV)	0.2				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	10				A
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150				°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)							
Parameter	Test Conditions	Symbol	SGPD220S	SGPD240S	SGPD260S	SGPD2BS	Unit
Maximum instantaneous forward voltage	0.2A	V _F	0.45	0.50	0.60	0.80	Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	80.00		50.00		uA
	TA=125°C		30				mA
Typical junction capacitance	4.0 V, 1 MHz	C _J	18	13	12	9	pF
Typical thermal resistance	junction to mount	R _{θJM}	55				°C/W

Note:1),The thermal resistance from junction to mount,mounted on P.C.B with 5x5mm copper pads,2 OZ,FR4 PCB



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Ratings and Characteristics Curves

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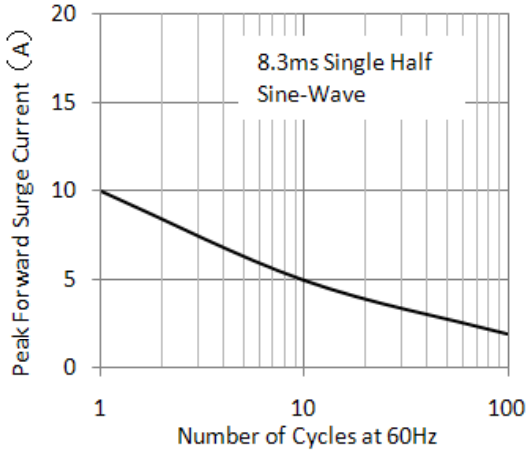


Figure 1. Maximum Non-Repetitive Peak Forward Surge Current

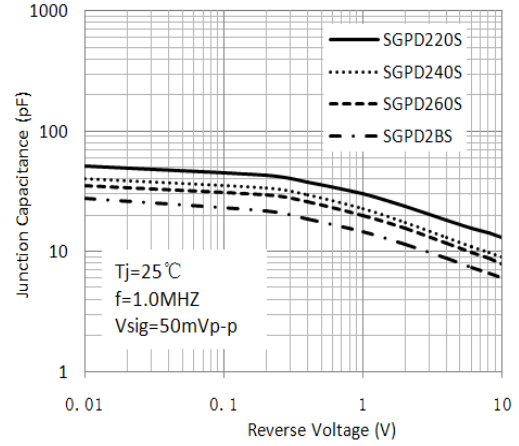


Figure 2. Typical Junction Capacitance

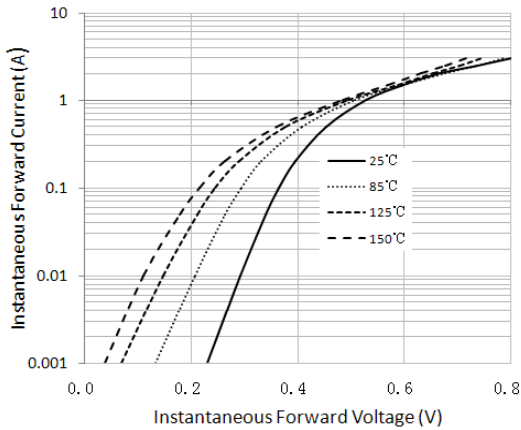


Figure 3. Typical Instantaneous Forward Characteristics (SGPD220S)

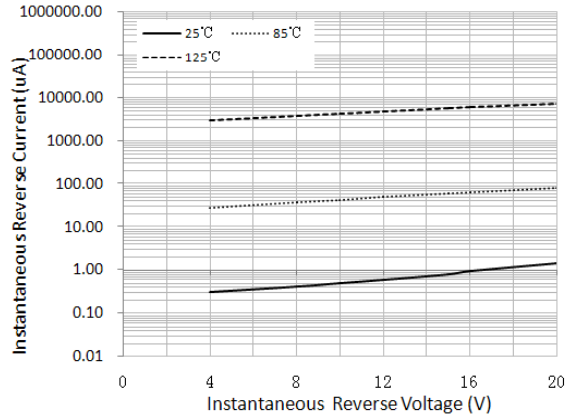


Figure 4. Typical Reverse Characteristics (SGPD220S)

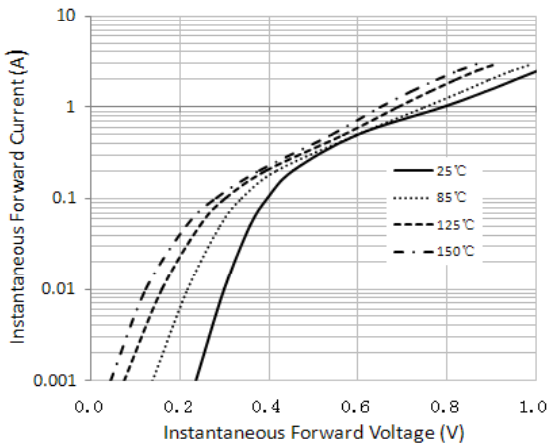


Figure 5. Typical Instantaneous Forward Characteristics (SGPD240S)

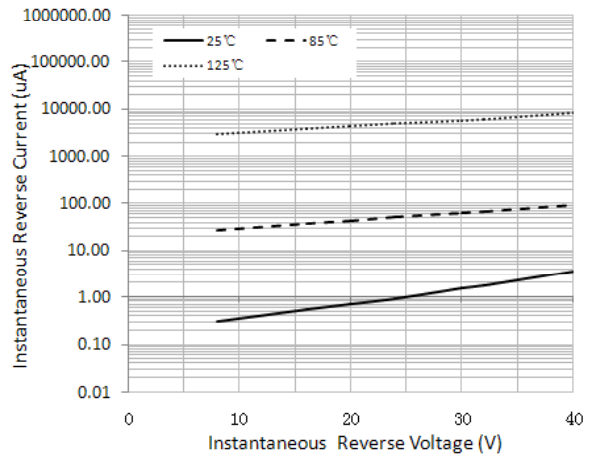


Figure 6. Typical Reverse Characteristics (SGPD240S)



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Ratings and Characteristics Curves

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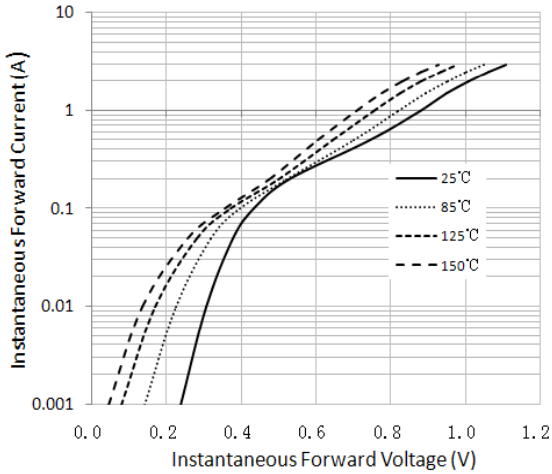


Figure 7. Typical Instantaneous Forward Characteristics (SGPD260S)

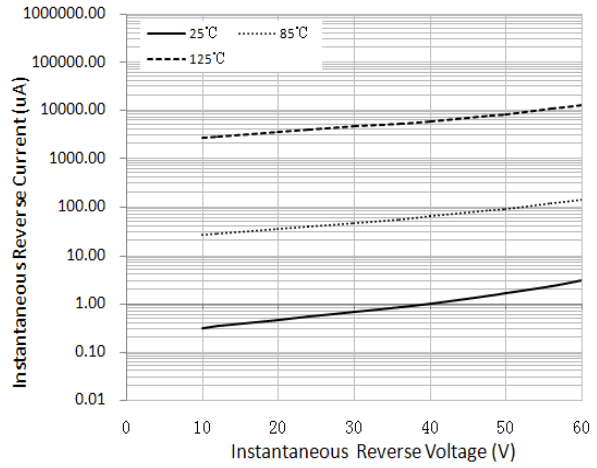


Figure 8. Typical Reverse Characteristics (SGPD260S)

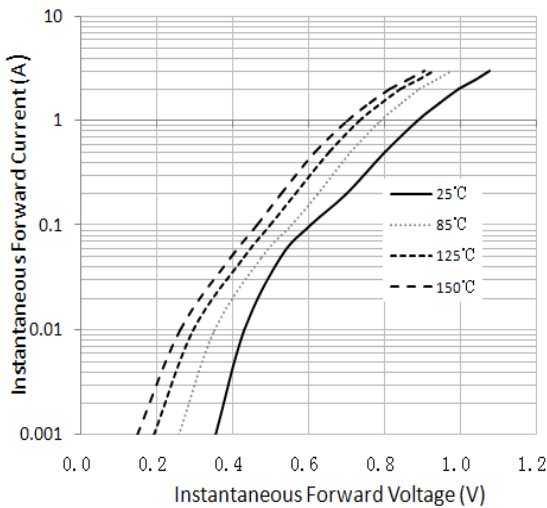


Figure 9. Typical Instantaneous Forward Characteristics (SGPD2BS)

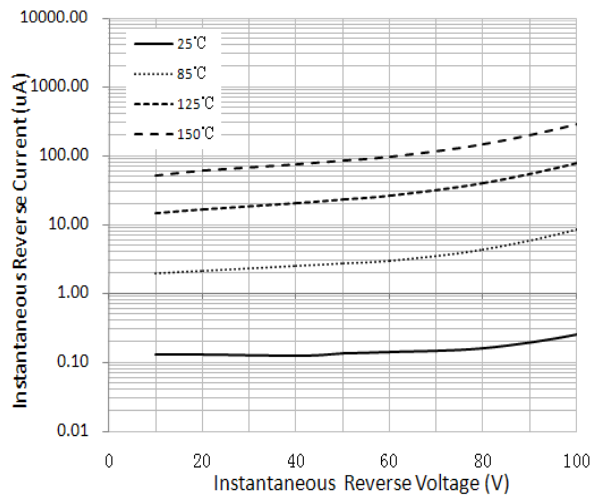
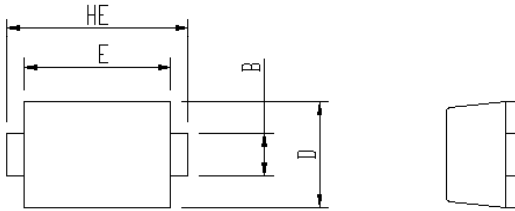
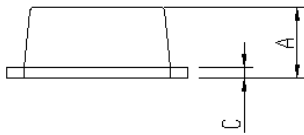


Figure 10. Typical Reverse Characteristics (SGPD2BS)

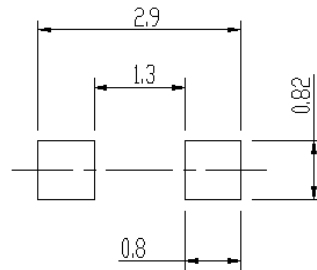
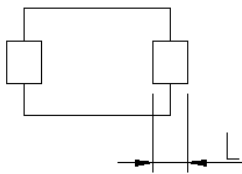
Package Outline Dimensions



Package	Unit:mm		Unit:inch	
	MIN	MAX	MIN	MAX
eSGP				
A	0.9	1.08	0.035	0.043
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	2.0	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

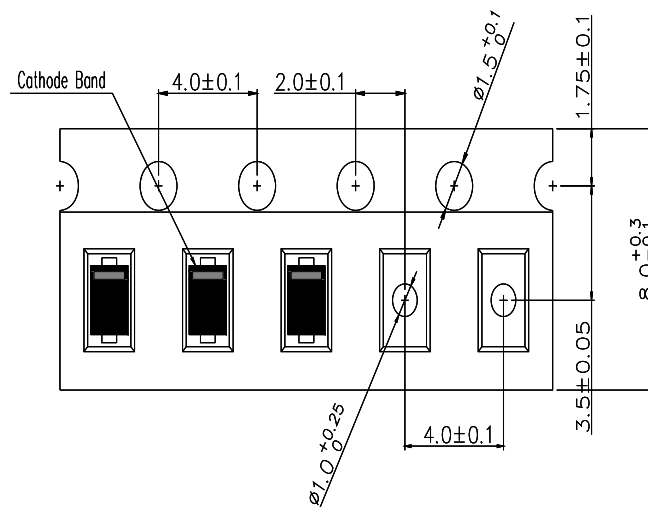


Packing Information

Packing quantities:

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

Tape & Reel Specification





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