

Surface Mount Schottky Rectifier Reverse Voltage 40~60V Forward Current 1A

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





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	SGP0140SL	SGP0160SL	Unit				
Maximum repetitive peak reverse voltage	VRRM	40	60	V				
Maximum RMS voltage	VRMS	28	42	V				
Maximum DC blocking voltage	VDC	40	60	V				
Maximum average forward rectified current	IF(AV)	1.0		А				
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	30		А				
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150		°C				

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	SGP0140SL	SGP0160SL	Unit				
Maximum instantaneous forward voltage	1 A	V _F	0.50	0.70	Volts				
Maximum DC reverse current at rated DC blocking voltage	TA=25℃ TA=125℃	I _R	0	2	mA				
Typical junction capacitance	4.0 V, 1 MHz	CJ	4	5	pF				
Typical thermal resistance	juntion to mount	$R_{\theta JM}$	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

(TA = 25°C unless otherwise noted)

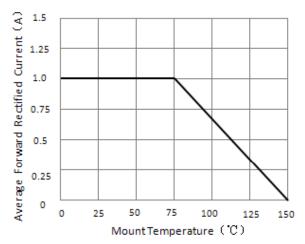


Figure 1. Forward Current Derating Curve

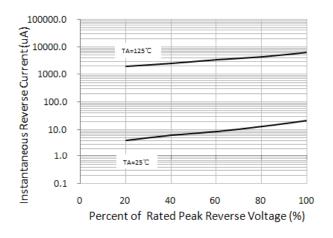


Figure 3. Typical Reverse Characteristics

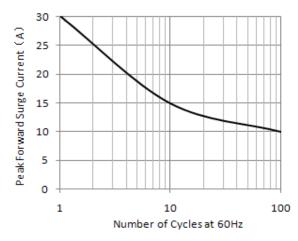


Figure 5.Maximum Non-Repetitive Peak Forward Surge Current

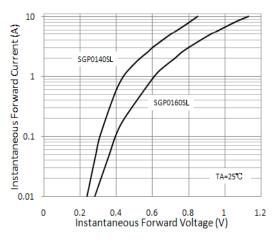


Figure 2. Typical Instantaneous Forward Characteristics

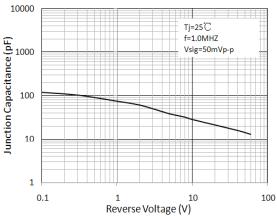
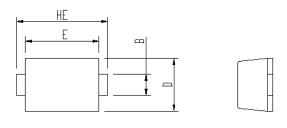


Figure 4. Typical Junction Capacitance

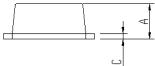


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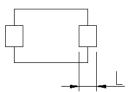
Package Outline Dimensions



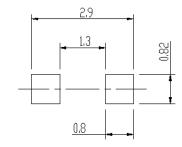
Package	Unit:mm		Unit:inch		
eSGP	MIN	MAX	MIN	MAX	
Α	0.9	1.08	0.035	0.043	
В	0.5	0.7	0.020	0.028	
С	0.1	0.25	0.004	0.010	
D	1.4	1.6	0.055	0.063	
Е	2.0	2.2	0.079	0.087	
L	0.35	0.65	0.014	0.026	
HE	2.4	2.8	0.094	0.110	







Soldering footprint

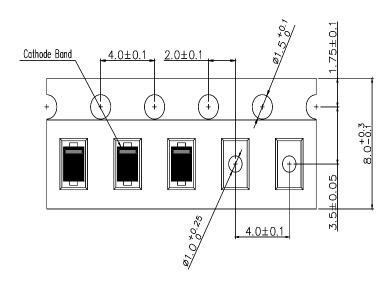


Packing Information

Packing quantities:

- 1),3000 pcs/Reel, 40 Reels/Box; 8mm Tape, 7" Reel
- 2),10000 pcs/Reel, 16 Reels/Box; 8mm Tape, 13" Reel

Tape & Reel Specification





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