SS12G~SS120G

ROHS

Surface Mount Schottky Barrier Rectifier

Features

- Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

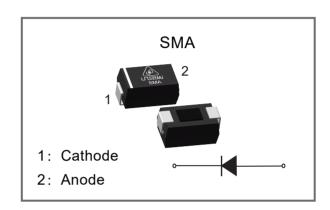
◆ Case: SMA

◆ Quantity Per Reel : 2,000pcs◆ Approx. Weight : 60mg / 0.0021oz

◆ Terminals: Solderable per MIL-STD-750, Method 2026



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Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter		Symbol	SS12G	SS14G	SS16G	SS18G	SS110G	SS112G	SS115G	SS120G	Units
Maximum Repetitive Peak Reverse Voltage		VRRM	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage		VRMS	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage		VDC	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current at Tc=100℃		IF(AV)	1.0							А	
Peak Forward Surge Current,8.3 Half Sine-wave Superimposed (Load (JEDEC method)	IFSM	25								А	
Max Instantaneous Forward Vol	VF	0.5	55	0.70 0.85		35	0.90		\		
Maximum DC Reverse Current	Ta=25℃	lr	0.3		0.2		0.1		mA		
at Rated DC Reverse Voltage	Ta=100℃	lR		10	5.0		2.0)			
Typical Junction Capacitance (1	Cj	110 80							рF		
Typical Thermal Resistance (2)	$R_{\theta JA}$	90								%\M	
Operating Junction Temperature	TJ	-55 ~ +150							°C		
Storage Temperature Range	Tstg	-55 ~ +150								${\mathbb C}$	

Note:(1) Measured at 1 MHz and applied reverse voltage of 4VDC.

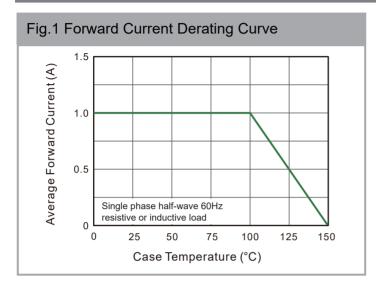
(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5cm) copper pad areas.

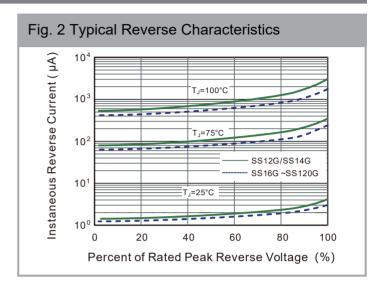


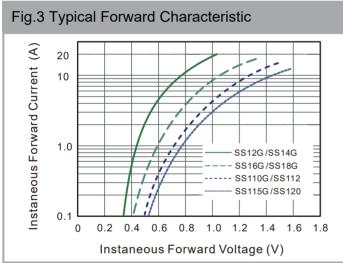
Surface Mount Schottky Barrier Rectifier

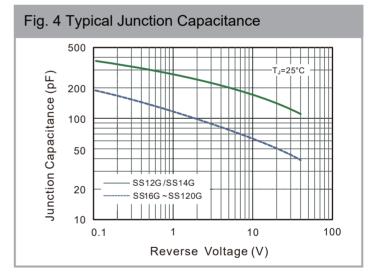
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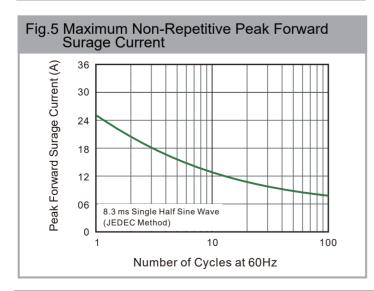
Electrical Characteristics Curves

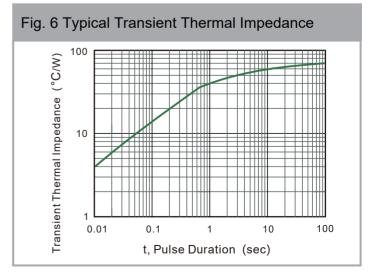










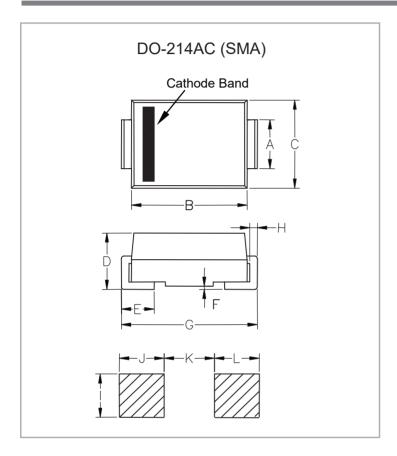




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Package Outline & Dimensions



Dimensions	Inc	hes	Millimeters			
Difficusions	Min.	Max.	Min.	Max.		
А	0.049	0.064	1.230	1.630		
В	0.162	0.179	4.10	4.550		
С	0.099	0.109	2.510	2.760		
D	0.077	0.089	1.960	2.260		
Е	0.030	0.060	0.750	1.510		
F	1	0.008	1	0.203		
G	0.192	0.206	4.87	5.220		
Н	0.006	0.012	0.152	0.305		
I	0.070	ı	1.800	-		
J	0.082	-	2.100	-		
K	-	0.090	-	2.300		
L	0.082	-	2.100	-		

Marking

Type Number	SS12G	SS14G	SS16G	SS18G	SS110G	SS112G	SS115G	SS120G
Making	SS12	SS14	SS16	SS18	SS110	SS112	SS115	SS120



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