





SS12 THRU SS110 SCHOTTKY RECTIFIER



Features

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low Power Loss, High Efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250 C/10 seconds at terminals
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC SMA molded plastic body
- Terminals: leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.003 ounce, 0.093 grams
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	SS12	SS13	SS14	SS15	SS16	SS18	SS110	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	71	V
Average Rectified Output Current @T _L (see fig.1)	Io				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				30				A
Forward Voltage @ I _O = 1.0 A	V _F		0.55		0.	70	0	.85	V
Peak Reverse Current @T _A = 25°C	I _{RM}	0.5			mA				
At Rated DC Blocking Voltage @T _A = 100°C	IKIVI	10					5	111/4	
Junction Capacitance (Note 1)	C⊤	28							
Typical Thermal Resistance Junction to Lead (Note 2)	R _{θJL}	88			°C/W				
Operating Temperature Range	LJ	-55 to +150			°C				
Storage Temperature Range	TstG	G -55 to +150			°C				

Note: 1. $V_R = 5V$, $T_C = 25$ °C, $f_{SIG} = 1MHz$

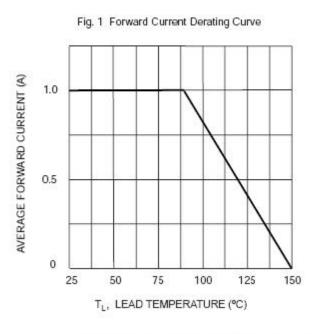
- 2. mounted on P.C. Board with 5.0mm² copper pad areas.
 - China Germany Korea Singapore United States •
 - http://www.smc-diodes.com sales@ smc-diodes.com •

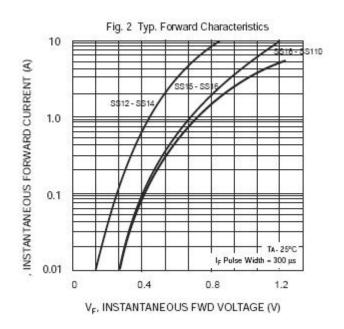


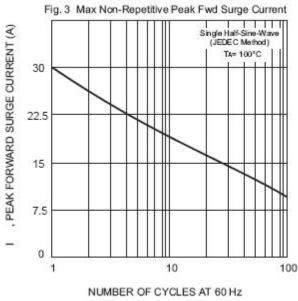


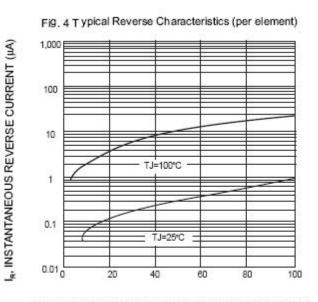


Ratings and Characteristics Curves









PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

[•] China - Germany - Korea - Singapore - United States •

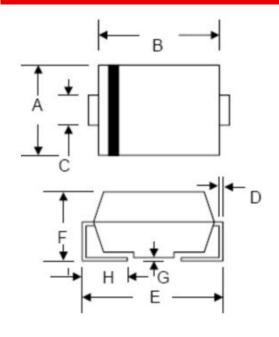
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Mechanical Dimensions SMA



SYMBOL	Milli	meters	Inches			
SYMBOL	Min.	Max.	Min.	Max.		
Α	2.40	2.84	0.094	0.112		
В	3.99	4.75	0.157	0.187		
С	1.05	1.70	0.041	0.067		
D	0.15	0.51	0.006	0.020		
E	4.80	5.66	0.189	0.223		
F	1.90	2.95	0.075	0.116		
G	0.05	0.203	0.002	0.008		
Н	0.76	1.52	0.030	0.600		

Ordering Information

Device	Package	Shipping			
SS12 - SS110	SMA (Pb-Free)	5000pcs / reel			

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

 SS12
 = Part Name

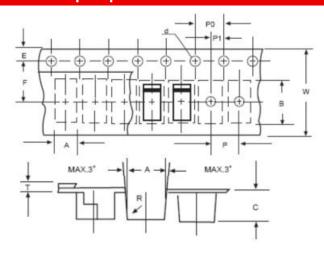
 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Carrier Tape Specification SMA



SYMBOL	Millimeters			
	Min.	Max.		
Α	2.97	3.17		
В	5.70	5.90		
С	2.32	2.52		
d	1.40	1.60		
E	1.40	1.60		
F	5.60	5.70		
Р	3.90	4.10		
P0	3.90	4.10		
P1	1.90	2.10		
Т	0.25	0.35		
W	11.80	12.20		

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