





#### SS12W SERIES SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER SMA(W) Unit : inch(mm) 20 to 100 Volt CURRENT 1 Ampere VOLTAGE **FEATURES** • Plastic package has Underwriters Laboratory 0 114(2 90) 0 098(2 50) Flammability Classification 94V-O • For surface mounted applications · Low power loss, high efficiency • High surge capacity 0.062(1.60) 0.047(1.20) • High current capacity, low V<sub>F</sub> • Lead free in compliance with EU RoHS 2011/65/EU directive 0.181(4.60) 0.157(4.00) • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.009(0.22) 0.007(0.18) .0.5 \_0.5 0.096(2.44) **MECHANICAL DATA** • Case: JEDEC SMA(W) molded plastic 0.71(1.80) 0.006(0.15) 0.008(0.20) 0.043(1.10) • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 0.047(1.2) 0.060(1.52) • Polarity: Color band denotes cathode end 0.030(0.76) • Standard packaging: 12mm tape (EIA-481) 0.208(5.28) • Weight: 0.0024 ounces, 0.0679 grams 0.157(4.00) Cathode Anode

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load.

PARAMETER	SYMBOL	SS12W	SS13W	SS14W	SS15W	SS16W	SS18W	SS19W	\$100W	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	90	100	V
Maximum RMS Voltage		14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	90	100	V
Maximum Average Forward Current at $T_L=75^{\circ}C$	I <sub>F(AV)</sub>	1						А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30						A		
Maximum Forward Voltage at 1A (Note 1)	V <sub>F</sub>	0.5 0.7			0.85		V			
Maximum DC Reverse Current at Rated DC Blocking $T_{J}=25^{\circ}C$ Voltage $T_{J}=100^{\circ}C$	I <sub>R</sub>	0.5 50			0.5 20		mA			
Typical Thermal Resistance (Note 2)	$f R_{_{ extsf{ hetaJL}}} \ R_{_{ hetaJA}}$	28 88						°C / W		
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150					°C			
Storage Temperature Range	Т <sub>втб</sub>	-55 to +150					°C			

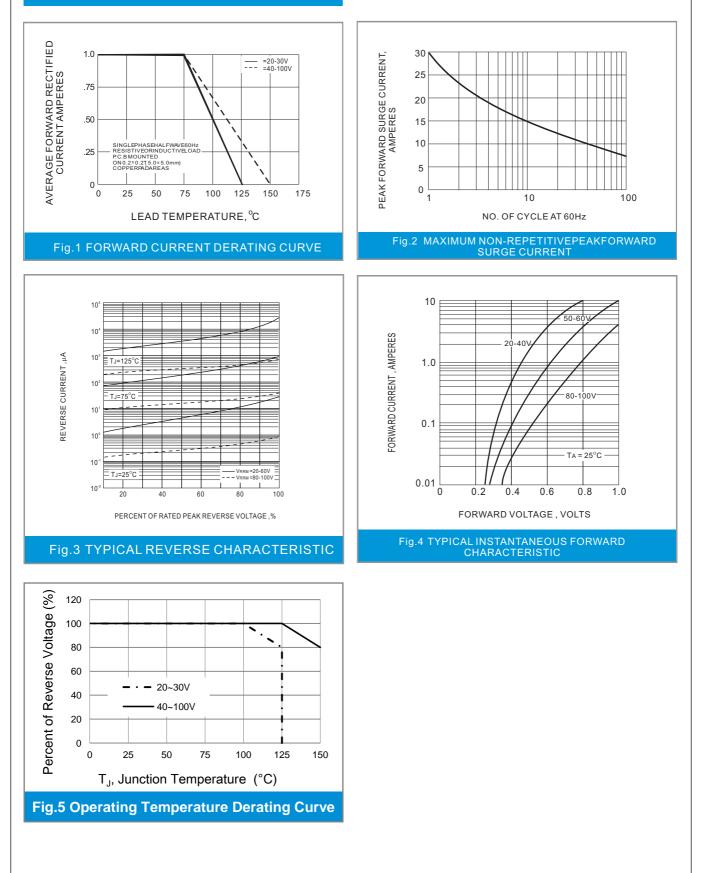
NOTES :

1.Pulse Test with PW =300µsec, 1% Duty Cycle.

2.Mounted on P.C. Board with 5mm<sup>2</sup> (0.013mm thick) copper pad areas.

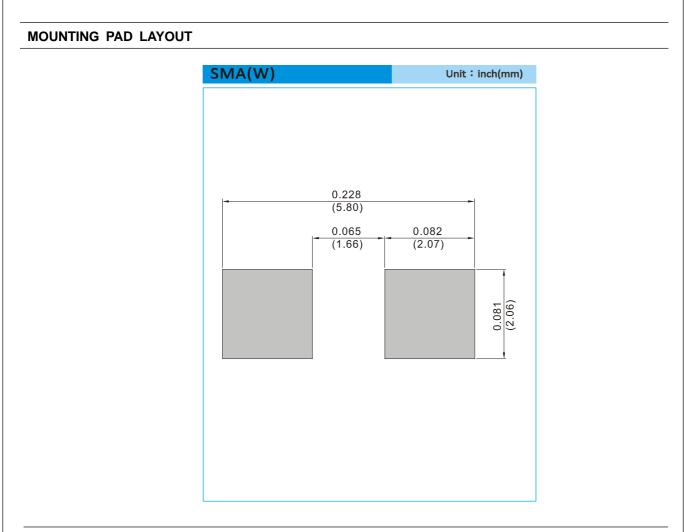


#### RATING AND CHARACTERISTIC CURVES









#### ORDER INFORMATION

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





#### Part No\_packing code\_Version

SS12W\_R1\_00001 SS12W\_R2\_00001

#### For example :

RB500V-40\_R2\_00001

Т

Part No.

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					



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