



# SR22W SERIES

## SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20~60 Volts **CURRENT** 2 Amperes

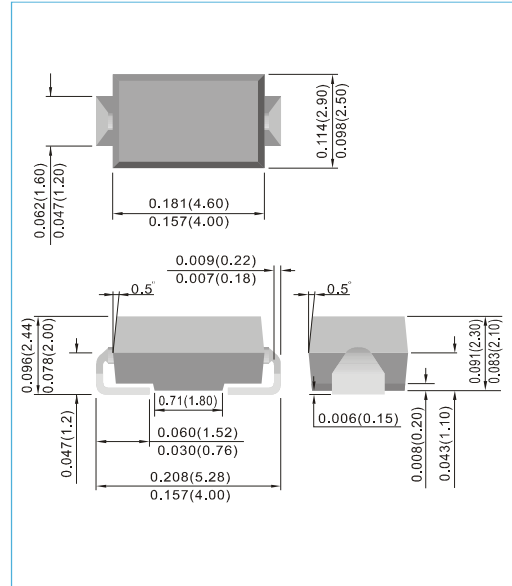
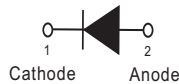
**SMA(W)** Unit : inch(mm)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss, high efficiency
- High surge capacity
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SMA(W) molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.002 ounce, 0.067 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load.

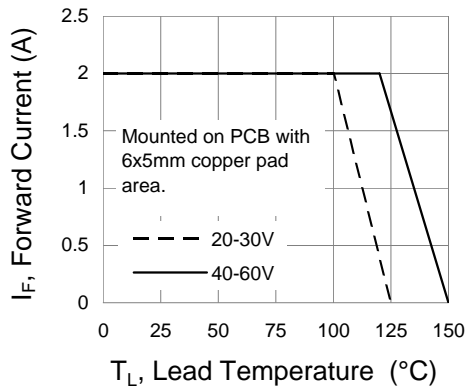
PARAMETER	SYMBOL	SR22W	SR23W	SR24W	SR26W	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	60	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	42	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	60	V
Maximum Average Forward Current (see Fig.4)	$I_{F(AV)}$	2.0				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50				A
Maximum Forward Voltage at 2.0A ( Note 1)	$V_F$	0.5		0.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	$I_R$	0.5		0.1		mA
Typical Thermal Resistance ( Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	25 100				$^{\circ}C / W$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125		-55 to +150		$^{\circ}C$

**NOTES:**

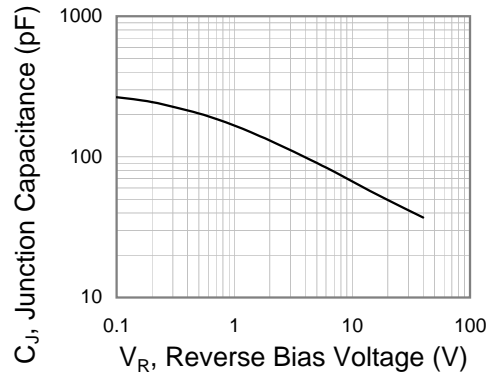
1. Pulse Test with PW =300µsec, 1% Duty Cycle.
2. Mounted on PCB 6x5mm copper pad areas.



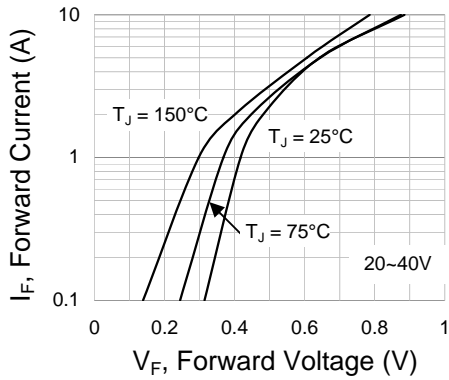
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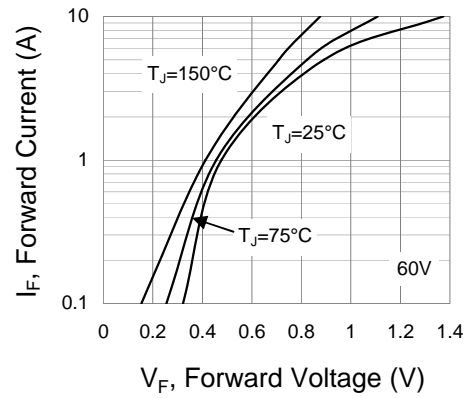
**Fig.1 Forward Current Derating Curve**



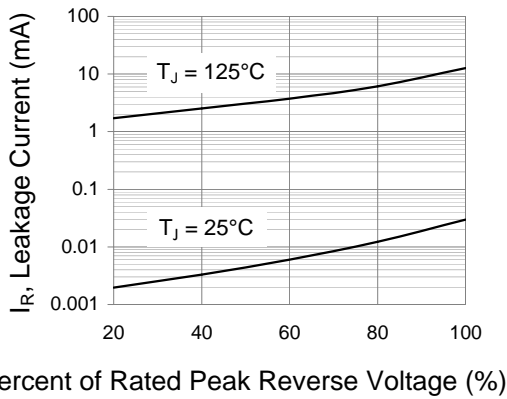
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Forward Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Typical Reverse Characteristics**

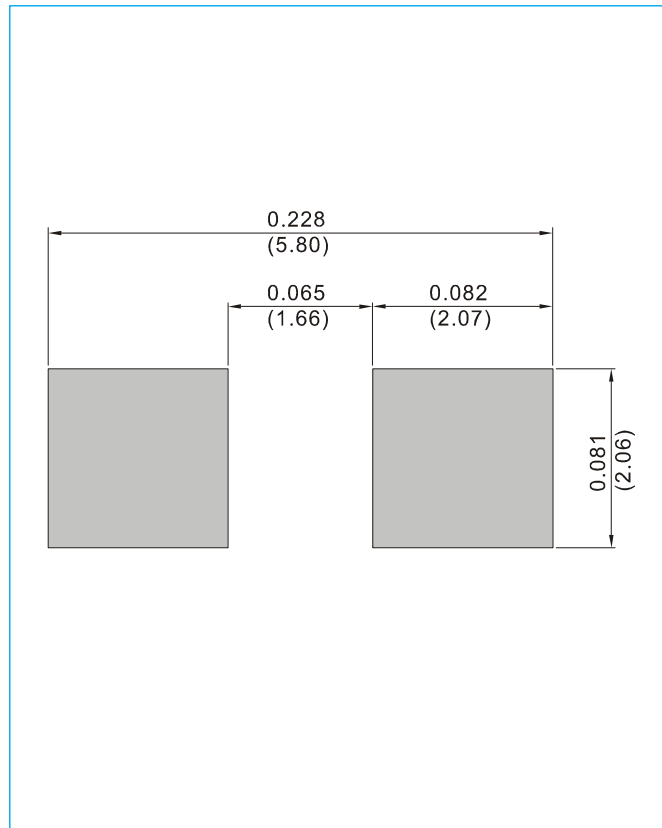


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## MOUNTING PAD LAYOUT

**SMA(W)**

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 7.5K per 13" plastic Reel
  - T/R - 1.8K per 7" plastic Reel



# SR22W SERIES

## Part No\_packing code\_Version

SR22W\_R1\_00001

SR22W\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXXX</b>		
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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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