

# BR28F SERIES

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 80-150Volts **CURRENT** 2 Amperes

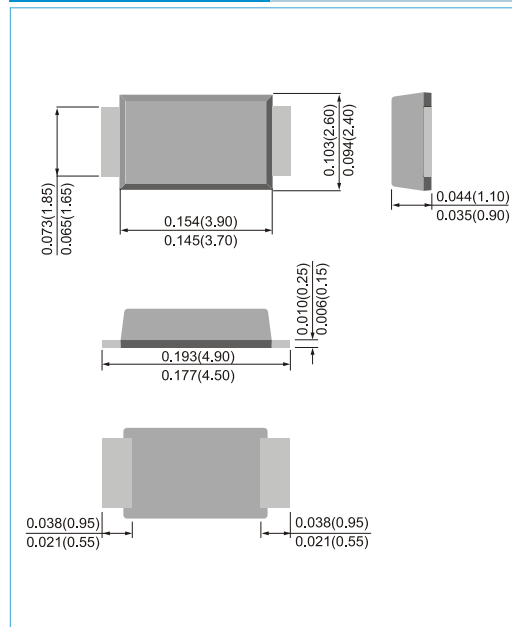
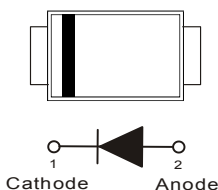
**SMAF** Unit : inch(mm)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Approx. Weight: 0.0012 ounces, 0.0328 grams
- Polarity : Color band denotes cathode end



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	BR28F	BR29F	BR210F	BR215F	UNITS
Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	80	90	100	150	V
RMS Voltage	V <sub>RMS</sub>	56	63	70	105	V
DC Blocking Voltage	V <sub>R</sub>	80	90	100	150	V
Average Forward Current	I <sub>F(AV)</sub>	2				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	50				A
Forward Voltage at 2.0A	V <sub>F</sub>	0.8			0.9	V
DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.05				mA
Typical Junction Capacitance ( VR=4V, f=1MHz)	C <sub>J</sub>	75			60	pF
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 1)	R <sub>θJL</sub> R <sub>θJA</sub>	20 83				°C / W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150				°C

### NOTES :

1. Mounted on 48cm<sup>2</sup> FR-4 PCB.

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### RATING AND CHARACTERISTIC CURVES

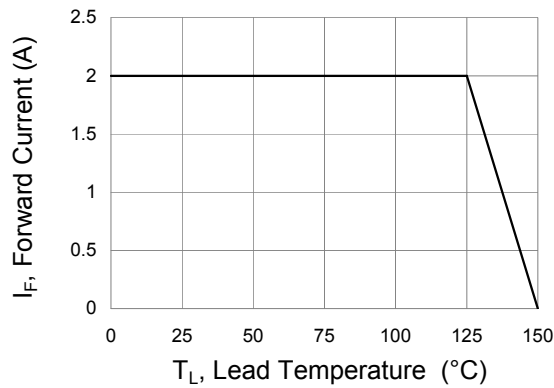


Fig.1 Forward Current Derating Curve

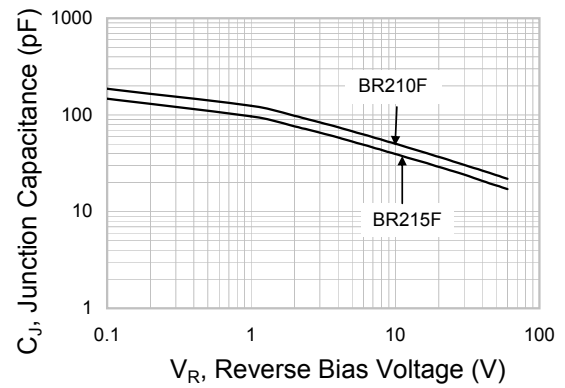


Fig.2 Typical Junction Capacitance

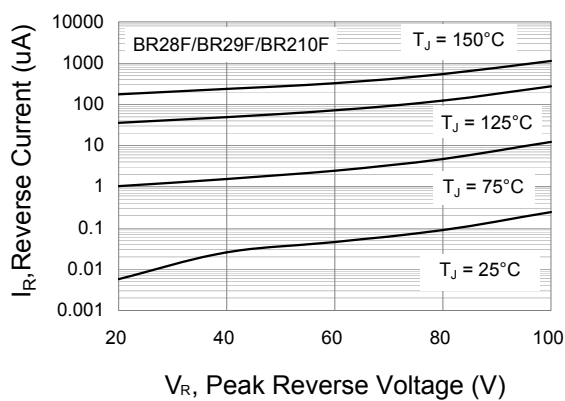


Fig.3 Typical Reverse Characteristics

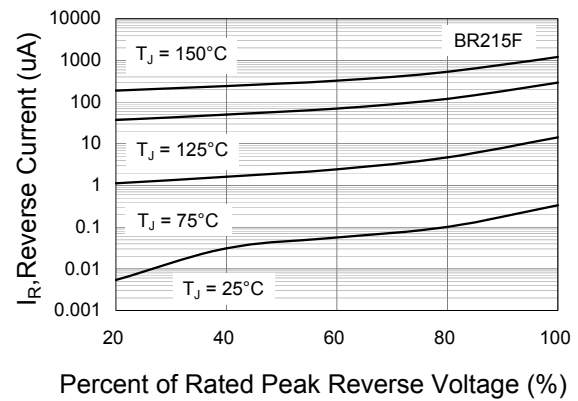


Fig.4 Typical Reverse Characteristics

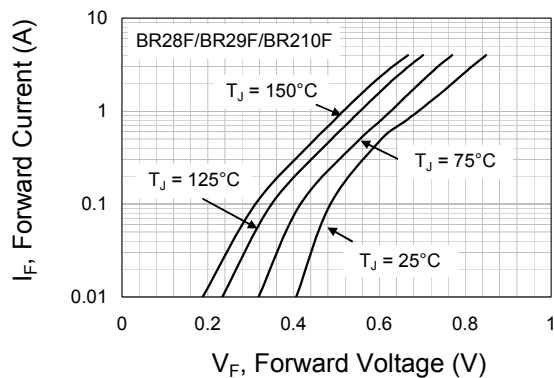


Fig.5 Typical Forward Characteristics

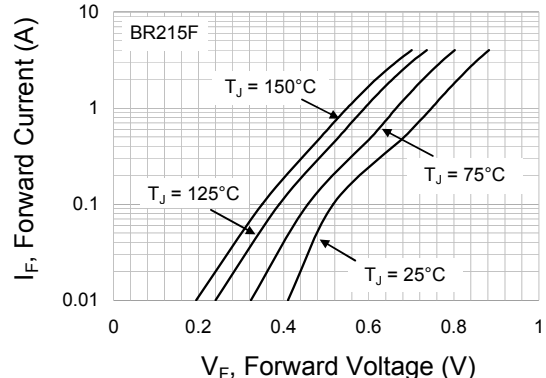
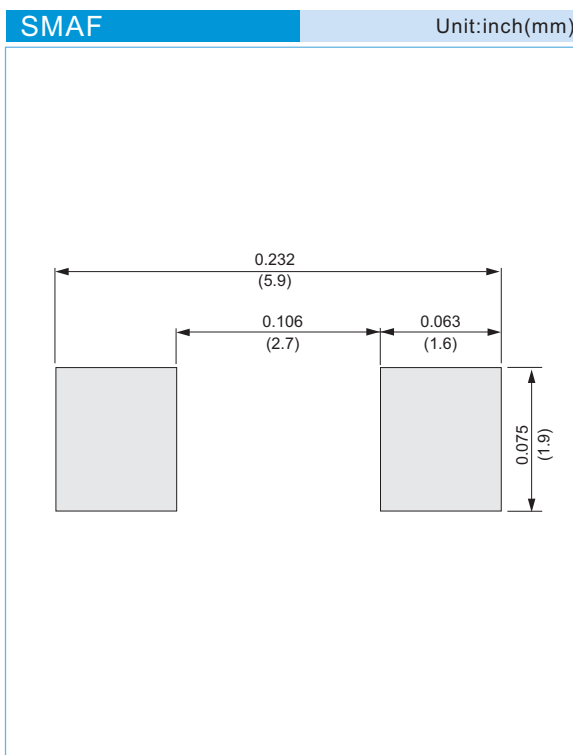


Fig.6 Typical Forward Characteristics

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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 5K per 13" plastic Reel

## LEGAL STATEMENT

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## BR28F SERIES

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
T/B	<b>A</b>	N/A	<b>0</b>	HF	<b>0</b>	serial number
T/R	<b>R</b>	7"	<b>1</b>	RoHS	<b>1</b>	serial number
B/P	<b>B</b>	13"	<b>2</b>			
T/P	<b>T</b>	26mm	<b>X</b>			
TRR	<b>S</b>	52mm	<b>Y</b>			
TRL	<b>L</b>	PBCU	<b>U</b>			
FORMING	<b>F</b>	PBCD	<b>D</b>			

Part No\_packing code\_Version

BR28F\_R1\_00001

BR28F\_R2\_00001

BR28F\_00001