



### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE

80-200 Volts

CURRENT

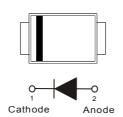
2 Amperes

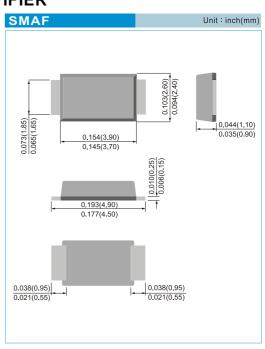
#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Metal to silicon rectifier. majority carrier conduction
- · Low power loss, high efficiency
- · High surge capacity
- Ultra Thin Profile Package for Space Constrained Utilization
- · Package suitable for Automated Handling
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- · Case: plastic molded
- 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 (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	BR28F	BR29F	BR210F	BR215F	BR220F	UNITS
Recurrent Peak Reverse Voltage		80	90	100	150	200	V
RMS Voltage		56	63	70	105	140	V
DC Blocking Voltage	V <sub>R</sub>	80	90	100	150	200	V
Average Forward Current	I <sub>F(AV)</sub>	2					
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	50					Α
Forward Voltage at 2.0A	V <sub>F</sub>	0.8 0.9			.9	V	
DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.05					mA
Typical Junction Capacitance ( VR=4V, f=1MHz)	CJ	75		60	45	pF	
Typical Thermal Resistance ,Junction to Lead (Note 1)  Junction to Ambient (Note 1)	$R_{_{\theta JA}}$	20 150					°C / W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150				°C	

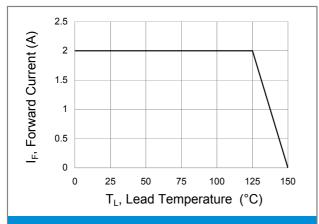
#### NOTES

- 1. Mounted on 48cm<sup>2</sup> copper pad area.
- 2. Mounted on an FR4 PCB, single-sided copper, mini pad.

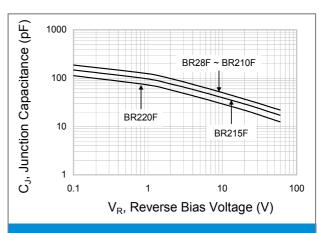




### **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

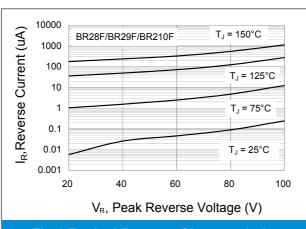


Fig.3 Typical Reverse Characteristics

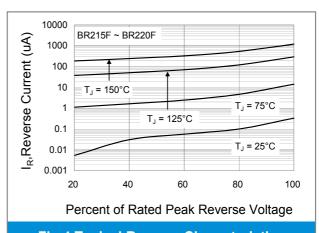
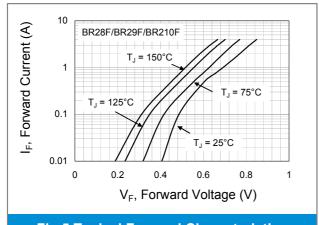


Fig.4 Typical Reverse Characteristics



**Fig.5 Typical Forward Characteristics** 

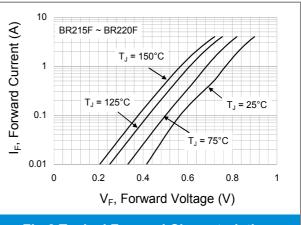
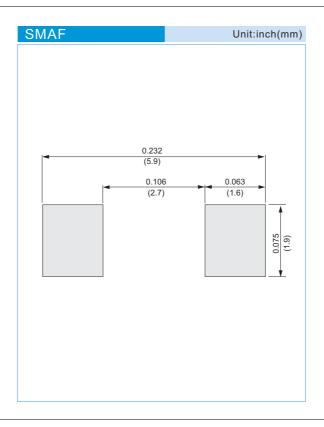


Fig.6 Typical Forward Characteristics





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

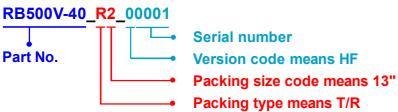




## Part No\_packing code\_Version

BR28F\_R1\_00001 BR28F\_R2\_00001

## For example:



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)	A	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	Х				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ				
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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