BR38F~BR320F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

CURRENT

3 Ampere

FEATURES	
Plastic package has Underwriters Laboratory Flammability	
Classification 94V-O	

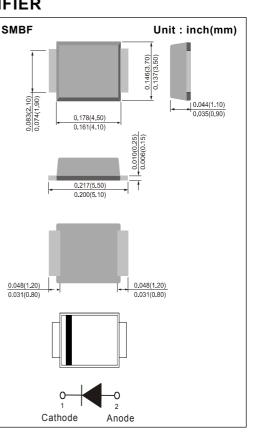
- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization

80-200Volt

- Package suitable for automated handling
- Low power loss,high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity: Color band denotes cathode end
- Marking: Part number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BR38F	BR39F	BR310F	BR315F	BR320F	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	80	90	100	150	200	V
RMS Voltage	V _{rms}	56	63	70	105	140	V
DC Blocking Voltage	V _R	80	90	100	150	200	v
Average Forward Current	I _{F(AV)}	3					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	80				А	
Forward Voltage at 3A	V _F	0.8 0.9			V		
DC Reverse Current at Rated DC Blocking Voltage	I _R	0.05				mA	
Typical Junction Capacitance (V _R =4V, f=1MHz)	C'	120		100	70	рF	
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)	R _{ejl} R _{eja}	17 135				°C / W	
Operating Junction Temperature and Storage Temperature Range	T J, T Stg	-65 to +150				°C	

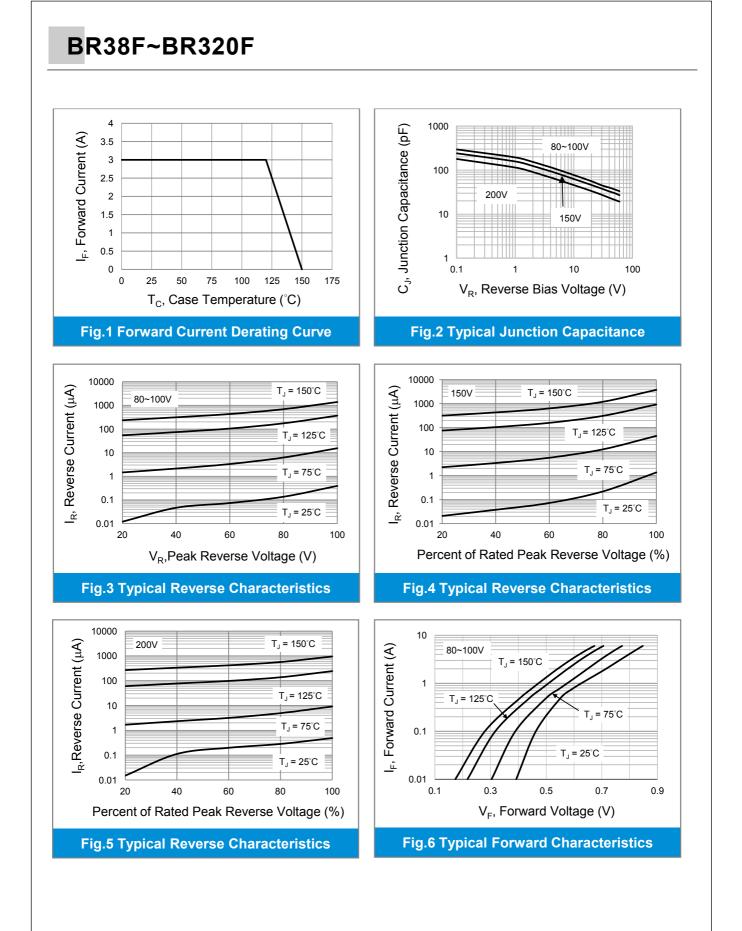
NOTES :

1. Mounted on FR-4 PCB, single-sided copper, with 100cm² copper pad area.

2. Mounted on FR-4 PCB, single-sided copper, mini pad.



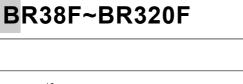
VOLTAGE











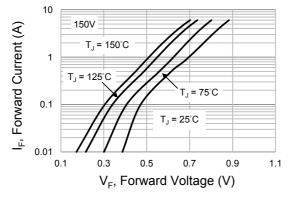
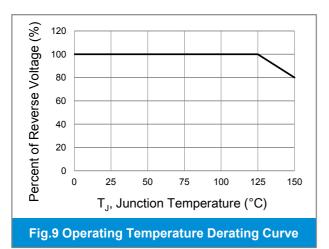


Fig.7 Typical Forward Characteristics



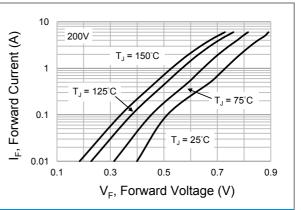


Fig.8 Typical Forward Characteristics

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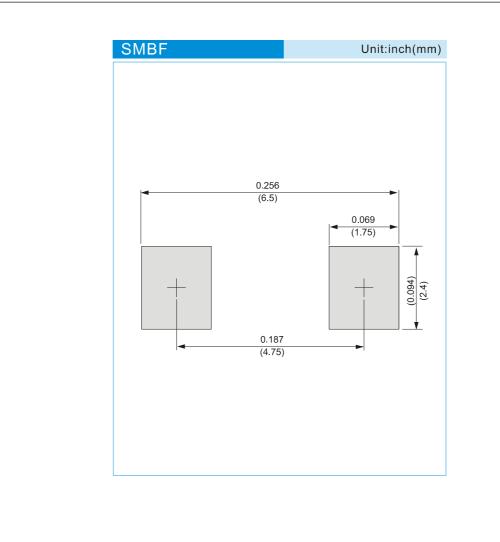


BR38F~BR320F

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
BR38F_R2_00001	SMBF	5K pcs / 13" reel	BR38F	Halogen free

MOUNTING PAD LAYOUT





BR38F~BR320F

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