



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE

80-200Volts

CURRENT

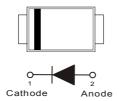
3 Amperes

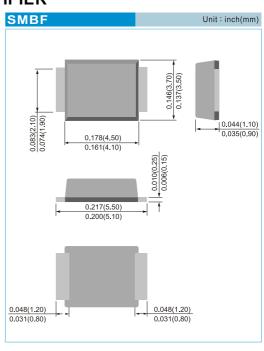
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Ultra thin profile package for space constrained utilization
- · Package suitable for automated handling
- · 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: 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





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

PARAMETER	SYMBOL	BR38F	BR39F	BR310F	BR315F	BR320F	UNITS
Recurrent Peak Reverse Voltage		80	90	100	150	200	V
RMS Voltage		56	63	70	105	140	V
DC Blocking Voltage	V _R	80	90	100	150	200	V
Average Forward Current	I _{F(AV)}	3.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	80					Α
Forward Voltage at 3.0A	V _F	0.8 0.9				.9	٧
DC Reverse Current at Rated DC Blocking Voltage	I _R	0.05					mA
Typical Junction capacitance (VR=4V, f=1MHz)	C _J	120		100	70	pF	
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					οС

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.





RATING AND CHARACTERISTIC CURVES

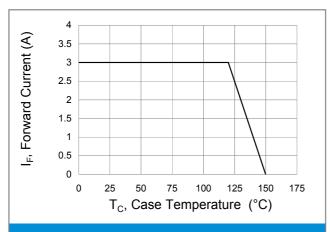


Fig.1 Forward Current Derating Curve

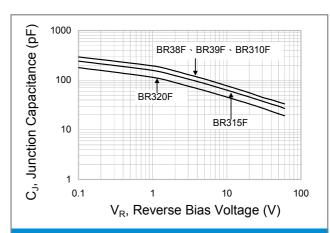


Fig.2 Typical Junction Capacitance

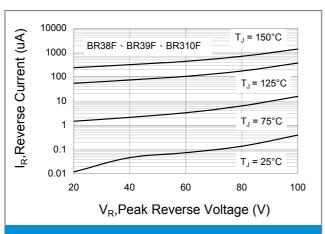


Fig.3 Typical Reverse Characteristics

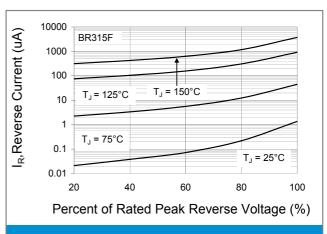


Fig.4 Typical Reverse Characteristics

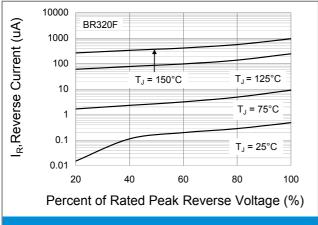


Fig.5 Typical Reverse Characteristics

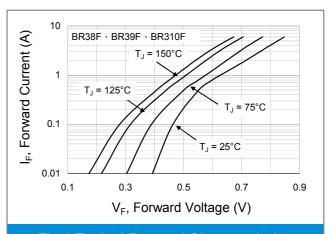


Fig.6 Typical Forward Characteristics





RATING AND CHARACTERISTIC CURVES

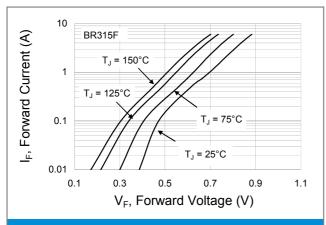


Fig.7 Typical Forward Characteristics

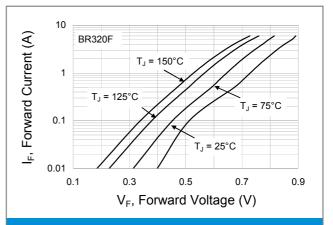
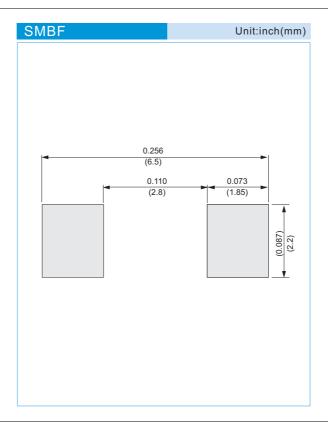


Fig.8 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

BR38F_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13"

Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
T/B	A	N/A	0	HF	0	serial number		
T/R	R	7"	1	RoHS	1	serial number		
B/P	В	13"	2					
T/P	Т	26mm	X					
TRR	S	52mm	Y					
TRL	L	PBCU	U					
FORMING	F	PBCD	D					

Packing type means T/R





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