



MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

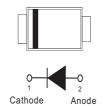
VOLTAGE 100 Volt CURRENT 8 Ampere

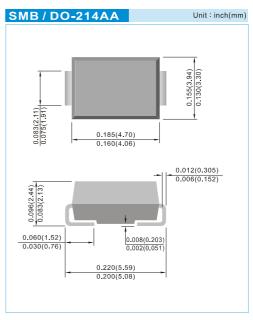
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AA 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: 0.0032 ounces, 0.092 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER		SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	100	V
Maximum RMS Voltage		V _{RMS}	70	٧
Maximum DC Blocking Voltage		V _{DC}	100	V
Maximum Average Forward Current		I _{F(AV)}	8	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	150	Α
Maximum Forward Voltage at 8A		$V_{_{F}}$	0.8	V
Maximum DC Reverse Current at Rated DC Blocking Voltage		I _R	50	μА
Typical Thermal Resistance	(Notes 1) (Notes 2)	$R_{_{ heta JA}}$	15 135	°C / W
Operating Junction and Storage Temperature Range		T_J,T_STG	-55 to +150	°C

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm*0.5mm copper pad area
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.





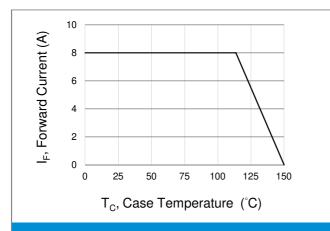


Fig.1 Forward Current Derating Curve

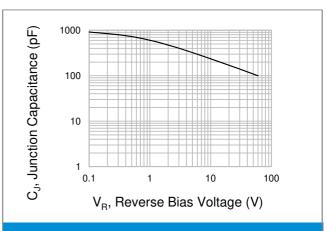


Fig.2 Typical Junction Capacitance

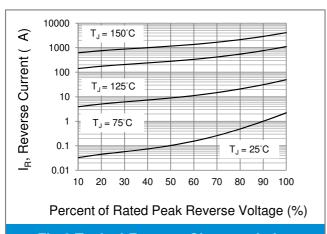


Fig.3 Typical Reverse Characteristics

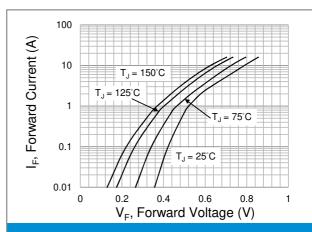
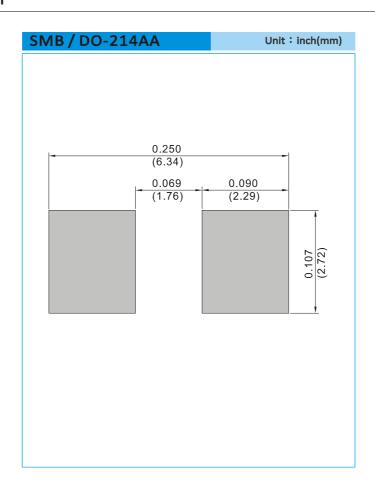


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

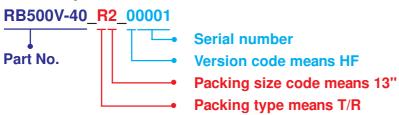




Part No_packing code_Version

BR810_R1_00001 BR810_R2_00001

For example:



Packing Code XX					Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th 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	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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