



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

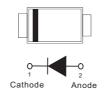
VOLTAGE 40 to 200 Volt CURRENT 1 Ampere

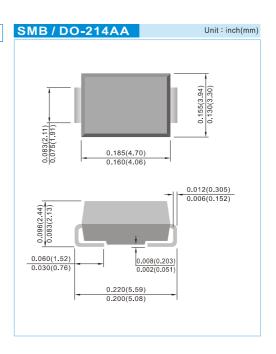
FEATURES

- 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
- High current capacity ,low V
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications.
- 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. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	MB14	MB14A	MB15	MB16	MB18	MB19	MB110	MB115	MB120	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	90	100	150	200	٧
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	٧
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	٧
Maximum Average Forward Current (See Figure 1)	I _{F(AV)}		•	•		1		•	•		А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load	I _{FSM}					30					А
Maximum Forward Voltage at 1A (Note 1)	V _F	0.	7	0.	74	0.8 0.9		.9	٧		
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage	I _R	0.05			mA						
Maximum DC Reverse Current at Rated DC Blocking T_J =100°C Voltage	I _R	2 1			mA						
Typical Thermal Resistance (Note 2)	R _{ejl} R _{eja}	30 95				°C /					
Operating Junction and Storage Temperature Range		-55 to +150 -65 to +175					°C				

NOTES:

- 1.Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 5mm² (0.013mm thick) copper pad areas.





RATING AND CHARACTERISTIC CURVES

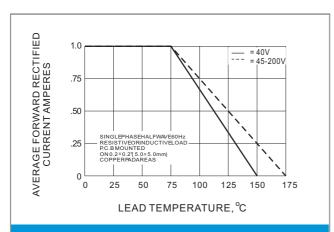


Fig.1 FORWARD CURRENT DERATING CURVE

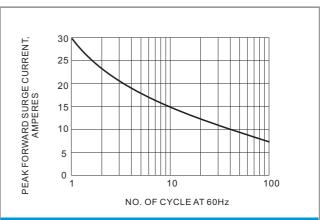


Fig.2 MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT

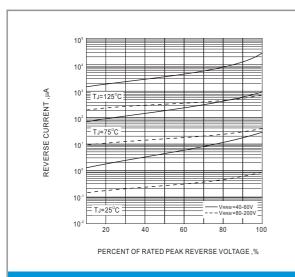


Fig.3 TYPICAL REVERSE CHARACTERISTIC

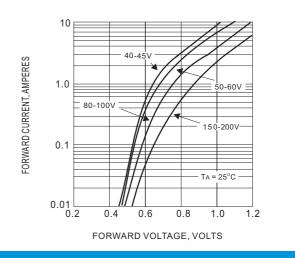


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

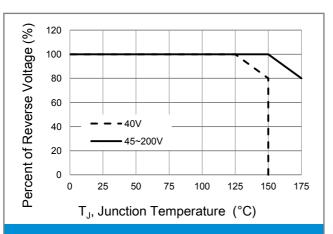
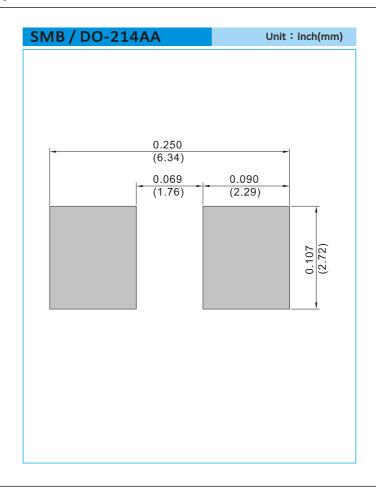


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

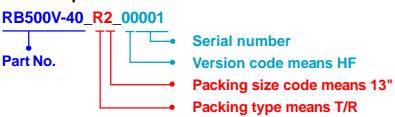




Part No_packing code_Version

MB14_R1_00001 MB14_R2_00001

For example:



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				
Tape and Ammunition Box (T/B)	Α	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	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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