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MBR240~MBR2200

SCHOTTKY BARRIER RECTIFIERS

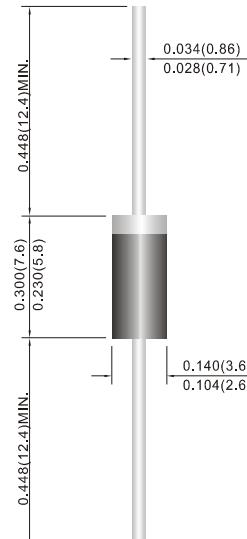
VOLTAGE 40 to 200 Volt **CURRENT** 2 Ampere

DO-15

Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ~~Low profile, high current, low forward voltage~~



MECHANICAL DATA

- Case: DO-15 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.014 ounces, 0.397 grams

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	MBR240	MBR245	MBR250	MBR260	MBR280	MBR290	MBR2100	MBR2150	MBR2200	UNITS						
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	90	100	150	200	V						
Maximum RMS Voltage	V_{RMS}	28	31.5	35	42	56	63	70	105	140	V						
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	90	100	150	200	V						
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (see fig1)	$I_{F(AV)}$	2.0								A							
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50								A							
Typical Thermal Resistance (Note 2)	$R_{θJA}$	35								°C / W							
Maximum Forward Voltage at 2.0A (Note 1)	V_F	0.7		0.74		0.8		0.9		V							
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_j=25^{\circ}\text{C}$ $T_j=100^{\circ}\text{C}$	I_R	0.05 20								mA							
Operating Junction and Storage Temperature Range	T_j, T_{STG}	-55 to +150	-65 to +175								°C						

NOTES:

1. Pulse Test : 300μs pulse with 1% Duty Cycle.
2. Thermal resistance junction to lead P.C.B mounted 0.375"(9.5mm) lead length.



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RATING AND CHARACTERISTIC CURVES

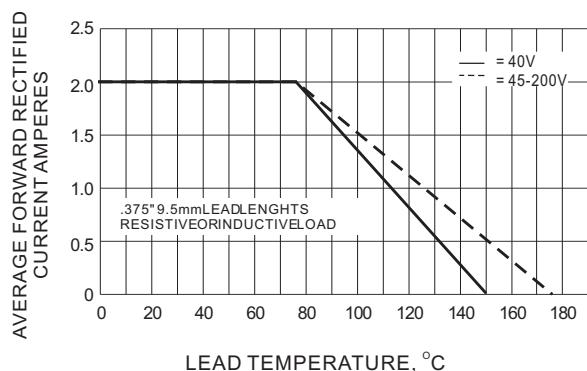


Fig.1 FORWARD CURRENT DERATING CURVE

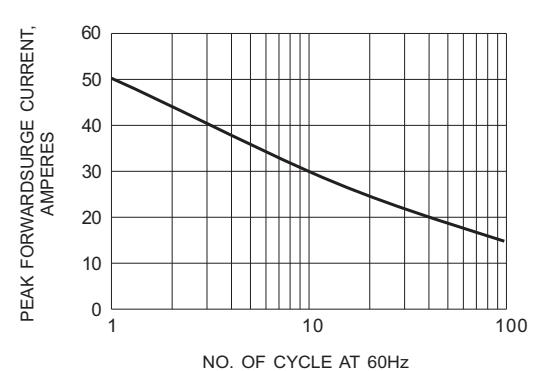


Fig.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

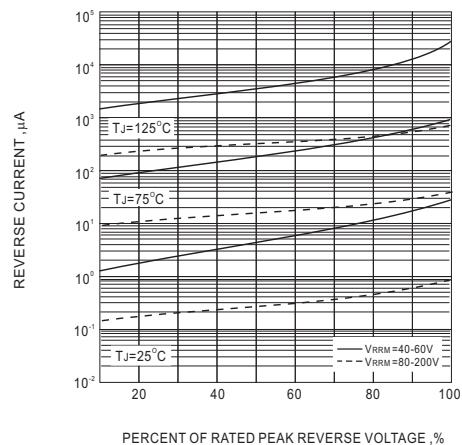


Fig.3 TYPICAL REVERSE CHARACTERISTIC

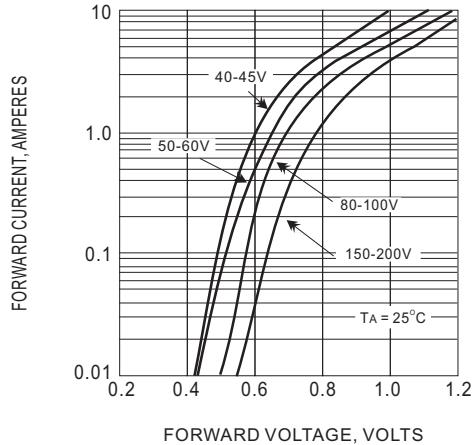


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

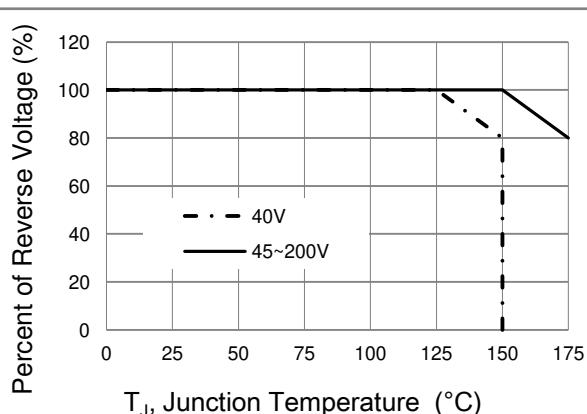


Fig.5 Operating Temperature Derating Curve



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Part No_packing code_Version

MBR240_AY_00001

MBR240_AY_10001

MBR240_B0_00001

MBR240_B0_10001

MBR240_R2_00001

MBR240_R2_10001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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