

### SCHOTTKY BARRIER RECTIFIERS

VOLTAGE

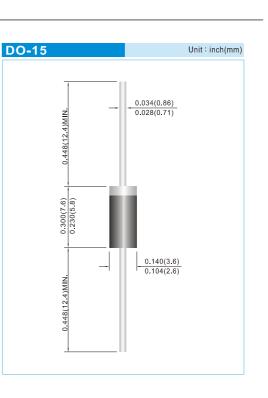
### 40 to 200 Volt CURRENT 2 Ampere

#### 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.
- Lead free in compliance with EU RoHS 2.0

#### **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		40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage		28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (see fig1)	I <sub>F(AV)</sub>	2.0							A		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		50							A		
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	35					°C / W				
Maximum Forward Voltage at 2.0A (Note 1)	V <sub>F</sub>	0.7		0.	0.74		0.8		0.9		V
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=100^{\circ}C$	I <sub>R</sub>	0.05 20						mA			
Operating Junctionand Storage Temperature Rang		-55 to +150 -65 to +175					°C				

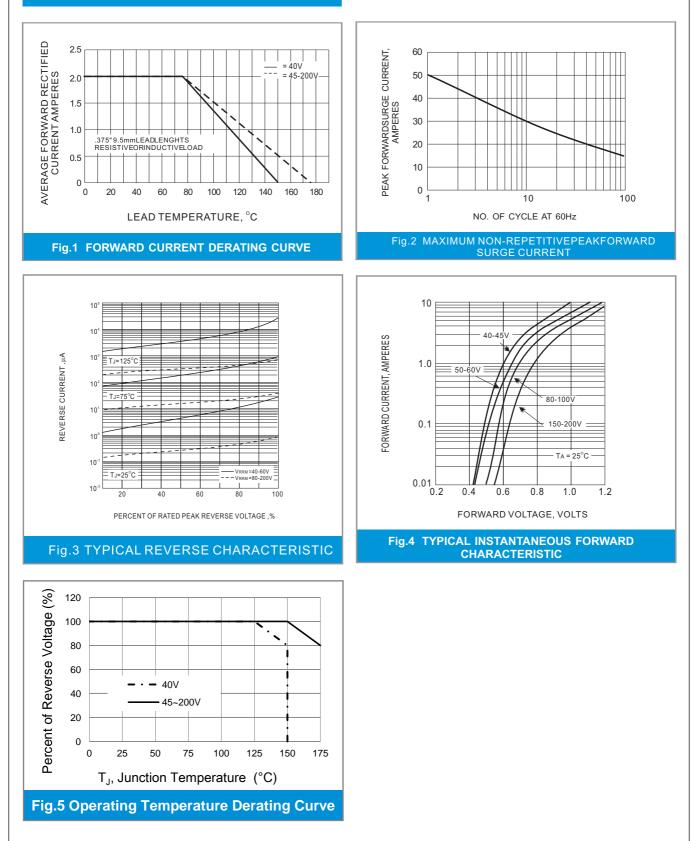
NOTES:

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.



### RATING AND CHARACTERISTIC CURVES







### Part No\_packing code\_Version

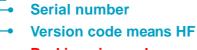
MBR240\_AY\_00001 MBR240\_AY\_10001 MBR240\_B0\_00001 MBR240\_B0\_10001 MBR240\_R2\_00001 MBR240\_R2\_10001

### For example :

## RB500V-40\_R2\_00001

L





Packing size code means 13"

Packing type means T/R

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