



SCHOTTKY BARRIER RECTIFIERS

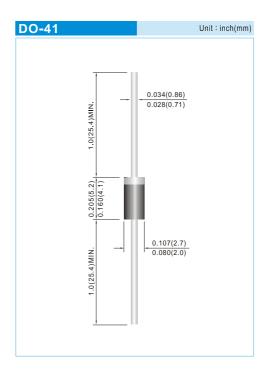
VOLTAGE 40~200 Volt CURRENT 1.0 Ampere

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 2011/65/EU directive

MECHANICAL DATA

- Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.0118 ounces, 0.336 grams



MAXIMUM RATINGS

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

PARAMETER		SYMBOL	MBR140	MBR145	MBR150	MBR160	MBR180	MBR190	MBR1100	MBR1150	MBR1200	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	40	45	50	60	80	90	100	150	200	٧
Maximum RMS Voltage		VRMS	28	31.5	35	42	56	63	70	105	140	٧
Maximum DC Blocking Voltage		VDC	40	45	50	60	80	90	100	150	200	٧
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (See Figure 1)		l av	1.0						Α			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	30					А				
Maximum Forward Voltage at 1.0A		VF	0.7	•	0.	74	0.8 0.9		.9	٧		
Maximum DC Pavarea Current at Pated DC Rincking Voltage	TJ=25°C TJ=100°C	IR	0.05 10					mA				
Typical Thermal Resistance		Rөja	50				°C /W					
Operating Junction and Storage Temperature Rang		TJ,Tstg	-55 to +150 -65 to +175					°C				





RATING AND CHARACTERISTIC CURVES

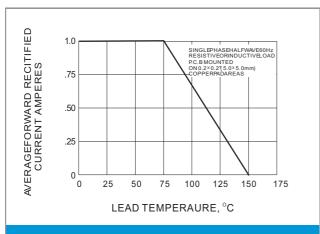


Fig.1 FORWARD CURRENTDERATING CURVE

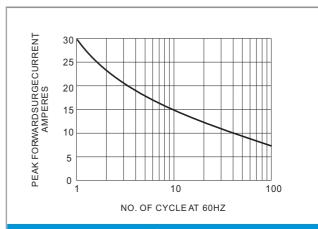


Fig.2 MAXIMUMNON-REPETITIVEPEAK FORWARD SURGECURRENT

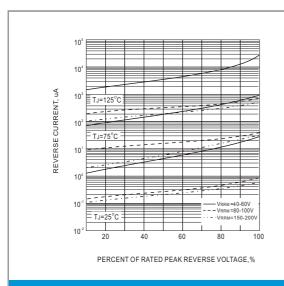


Fig.3 TYPICAL REVERSECHARACTERISTIC

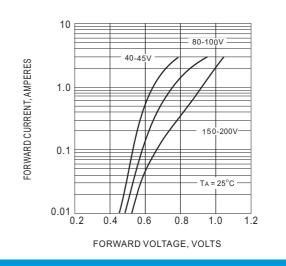


Fig.4 TYPICALINSTANTANEOUS FORWARD CHARACTERISTIC

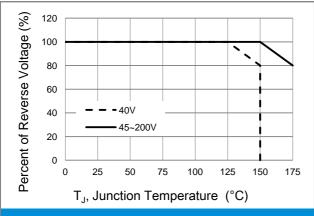


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

MBR140_AY_00001

MBR140_AY_10001

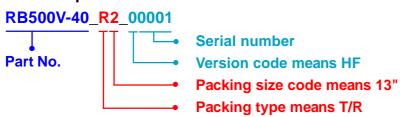
MBR140_B0_00001

MBR140_B0_10001

MBR140_R2_00001

MBR140_R2_10001

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)	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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