



20 AMPERES SCHOTTKY BARRIER RECTIFIERS

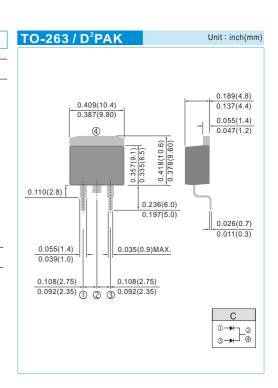
VOLTAGE 40 to 200 Volt CURRENT 20 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- · High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in compliance with EU RoHS 2011/65/EU directive



- Case: TO-263 / D2PAK molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Weight: 0.0515 ounces, 1.46 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.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR2040DC	MBR2045DC	MBR2050DC	MBR2060DC	MBR2080DC	MBR2090DC	MBR20100DC	MBR20150DC	MBR20200DC	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	V
Maximum Average Forward Current (See fig.1)	I _{F(AV)}	20							A		
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load	I _{FSM}	200							A		
Maximum Forward Voltage at 10A, per leg	V _F	0.7		0.	0.75		0.8		0.9		V
Maximum DC Reverse Current at Rated DC Tc=25 °C Blocking Voltage Tc=125°C	I _R	0.05 20						mA			
Typical Thermal Resistance	R _{eJC}	2						°C /			
Operating Junction Temperature Range	T _J	-50 to + 150						°C			
Storage Temperature Range	T _{STG}	-50 to + 150						°C			

Notes:

Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

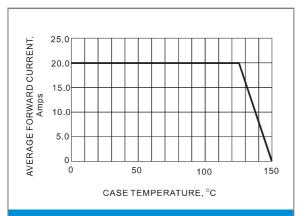


Fig.1- FORWARD CURRENT DERATING CURVE

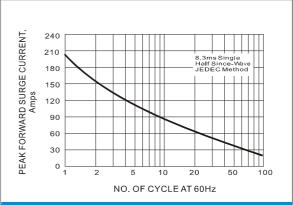


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

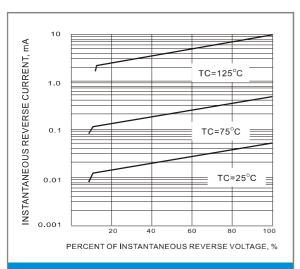


Fig.3-TYPICAL REVERSE CHARACTERISTICS

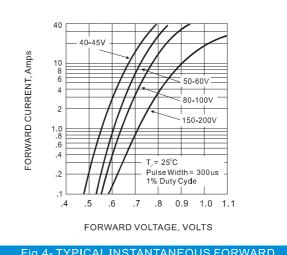


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

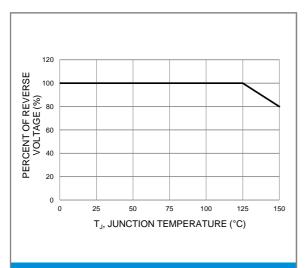
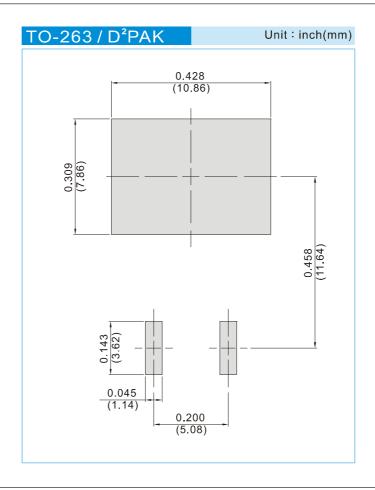


Fig.5- OPERATING TEMPERATURE DERATING CURVE





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

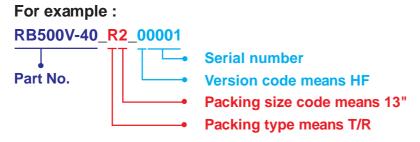
T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

MBR2040DC_R2_00001 MBR2040DC_R2_10001



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)	Ø	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	Ш	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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