



D2PAK SURFACE MOUNTSCHOTTKY BARRIER RECTIFIER

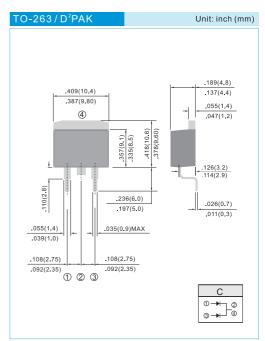
VOLTAGE 40 to 200 Volt CURRENT 8 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Low power loss, high efficiency.
- · Low forward voltge, high current capability
- · High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: TO-263/D2PAK molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Weight: 0.049 ounces, 1.38 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	MBR840DC	MBR845DC	MBR850DC	MBR860DC	MBR880DC	MBR890DC	MBR8100DC	MBR8150DC	MBR8200DC	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	VRMS	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 (See Figure 1)	I _{F(AV)}	8							А		
Peak Forward Surge Current : 8.3ms single half sinewave superimposed on rated load	l FSM	150							А		
Maximum Forward Voltage at 4A	V _F	0.	70	0.75 0.80 0.90		90	V				
Maximum DC Reverse Current T =25°C at Rated DC Blocking Voltage T =100°C	I _R	0.05 20						mA			
Typical Thermal Resistance	R _{(JC}	3						°C / W			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150 -65 to +175						°C			

NOTES: Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

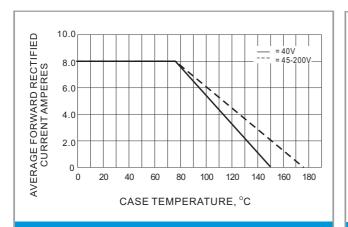


Fig.1- FORWARD CURRENT DERATING CURVE

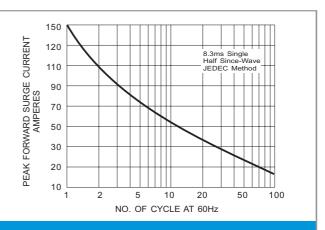


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

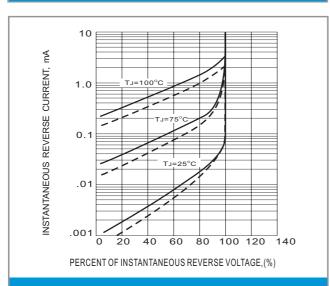


Fig.3- TYPICAL REVERSE CHARACTERISTICS

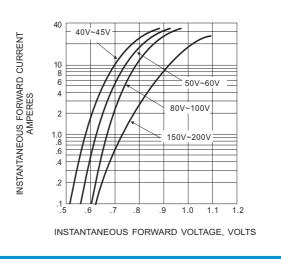


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

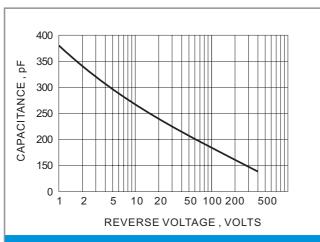
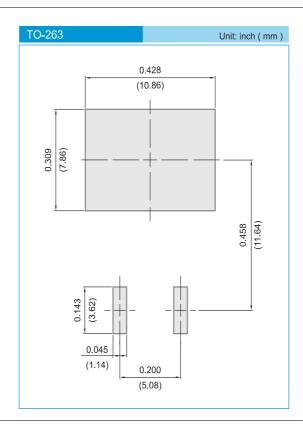


Fig.5-TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

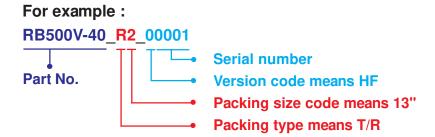
T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

MBR840DC_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)	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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