

## MBR1040DC~MBR10200DC

### D<sup>2</sup>PAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volt

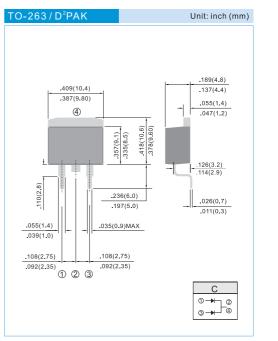
## CURRENT 10 Ampere

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- · Low power loss, high efficiency.
- · Low forwrd 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 2011/65/EU directive

### MECHANCAL DATA

- Case: D<sup>2</sup>PAK Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Standard packaging: Any
- Weight: 0.0514 ounces, 1.46 grams.



#### MAXIMUM RATINGS

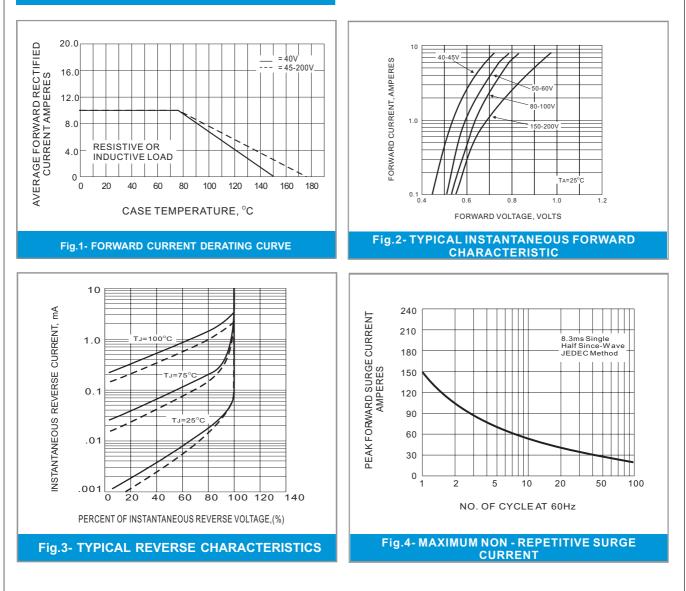
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR1040DC	MBR1045DC	MBR1050DC	MBR1060DC	MBR1080DC	MBR1090DC	MBR10100DC	MBR10150DC	MBR10200DC	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	v
Maximum RMS Voltage	V <sub>rms</sub>	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 (See Figure 1)	I <sub>F(AV)</sub>	10						A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>fsm</sub>	150						A			
Maximum Forward Voltage at 5.0A per leg	V <sub>F</sub>	0.	70	0.	75	0.80 0.90		90	V		
Maximum DC Reverse Current at Tj=25°C Rated DC Blocking Voltag Tj=100°C	I <sub>R</sub>	0.05 20					mA				
Typical Thermal Resistance	R <sub>ejc</sub>	3.0						°C/ W			
Operating Junction and Storage Temperature Range	T <sub>j</sub> ,T <sub>stg</sub>	-55 to +150 -65 to +175					°C				



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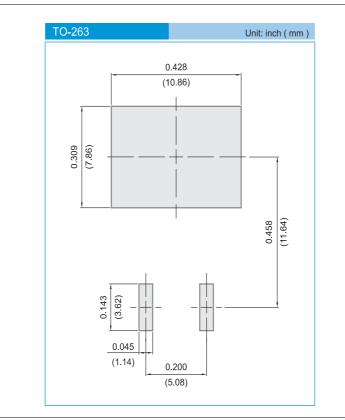
### **RATING AND CHARACTERISTIC CURVES**





# MBR1040DC~MBR10200DC

### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

Packing information
T/R - 0.8K per 13" plastic Reel





### Part No\_packing code\_Version

MBR1040DC\_R2\_00001 MBR1040DC\_R2\_10001

## For example :

RB500V-40\_R2\_00001

- Serial number

• Version code means HF

- 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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