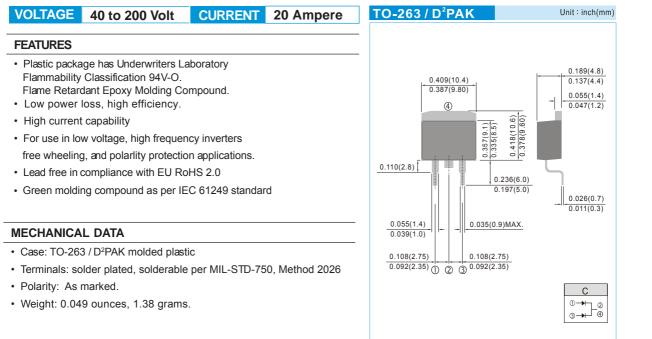


20 AMPERES SCHOTTKY BARRIER RECTIFIERS



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%

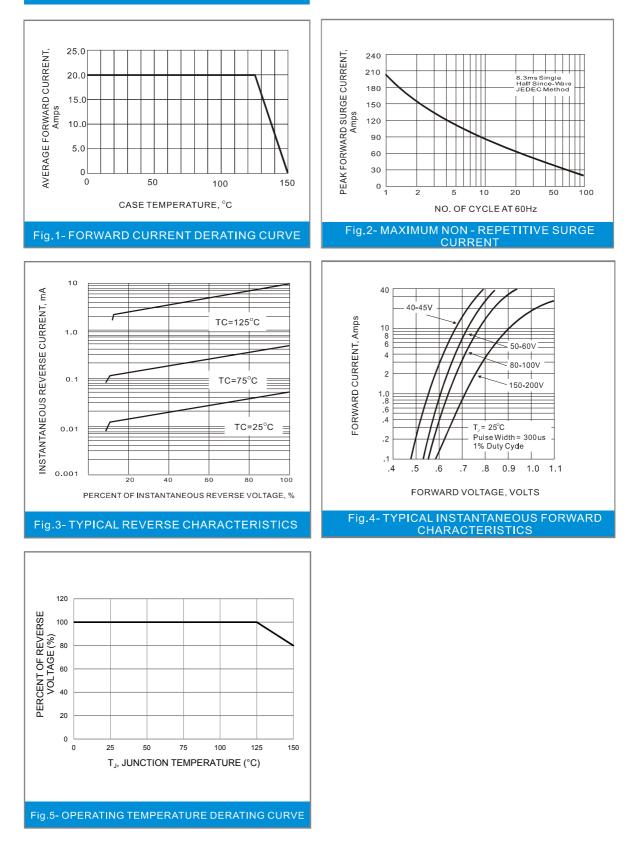
PARAMETER	SYMBOL	MBR2040DC	MBR2045DC	MBR2050DC	MBR2060DC	MBR2080DC	MBR2090DC	MBR20100DC	MBR20150DC	MBR20200DC	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{rms}	28	31.5	35	42	56	63	70	105	140	۷
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	٧
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		0.75		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	$R_{_{ ext{ extbf{ exbf{ extbf{ extbf{ extbf{ extbf{ extbf{ extbf{ extbf{ extbf{ e$	2						°C / W			
Operating Junction Temperature Range	Tj	-50 to + 150					°C				
Storage Temperature Range	T _{stg}	-50 to + 150						٥C			

Notes :

Both Bonding and Chip structure are available.

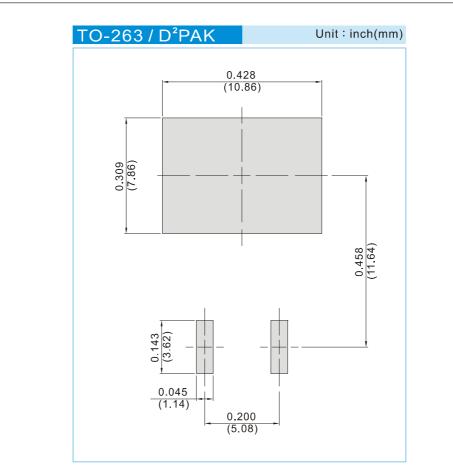


RATING AND CHARACTERISTIC CURVES





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel



Part No_packing code_Version

MBR2040DC_R2_00001

For example :

RB500V-40_R2_00001

Part No.

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 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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