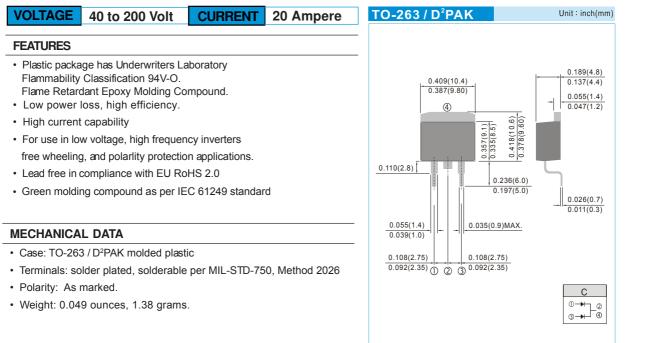


### 20 AMPERES SCHOTTKY BARRIER RECTIFIERS



#### 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%

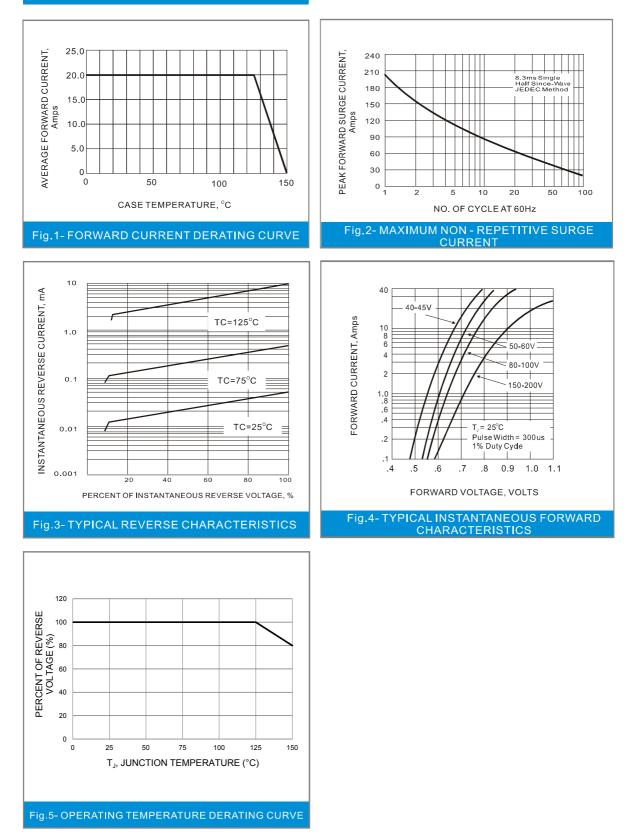
PARAMETER	SYMBOL	MBR2040DC	MBR2045DC	MBR2050DC	MBR2060DC	MBR2080DC	MBR2090DC	MBR20100DC	MBR20150DC	MBR20200DC	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	۷
Maximum Average Forward Current (See fig.1)	I <sub>F(AV)</sub>	20						A			
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load	I <sub>fsm</sub>	200						A			
Maximum Forward Voltage at 10A, per leg	V <sub>F</sub>	0.7 0.75		75	0.8		0.9		v		
Maximum DC Reverse Current at Rated DC Tc=25 °C Blocking Voltage Tc=125°C	I <sub>R</sub>	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 <sub>stg</sub>	-50 to + 150						٥C			

Notes :

Both Bonding and Chip structure are available.

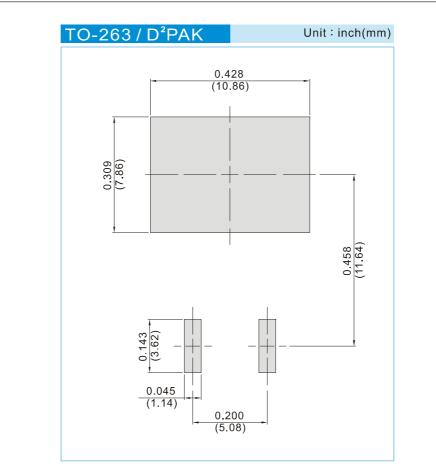


#### RATING AND CHARACTERISTIC CURVES





#### 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 <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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