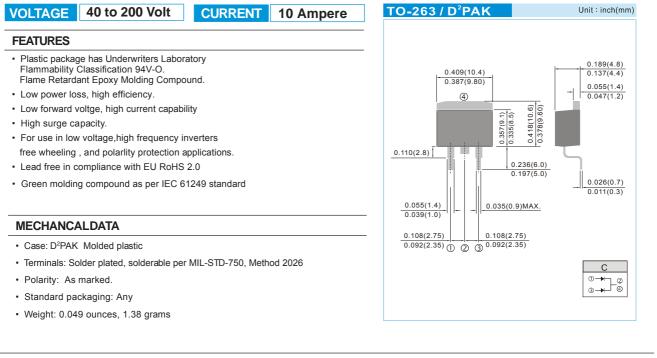


D²PAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



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	Vrrm	40	45	50	60	80	90	100	150	200	۷
Maximum RMS Voltage	Vrms	28	31.5	35	42	56	63	70	105	140	۷
Maximum DC Blocking Voltage	Voc	40	45	50	60	80	90	100	150	200	۷
Maximum Average Forward (See Figure 1)	F(AV)	10					A				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	IFSM	150						A			
Maximum Forward Voltage at 5.0A per leg	VF	0.70 0.75 0.80 0.90			90	۷					
Maximum DC Reverse Current at Rated DCBlocking TJ=25°C Voltage TJ=100°C	Ir	0.05 20					mA				
Typical Thermal Resistance	Rejc	3.0					°C / W				
Operating Junction and Storage Temperature Range	Tj, Tstg	-55 to +150 -65 to +175						٥C			



RATING AND CHARACTERISTIC CURVES

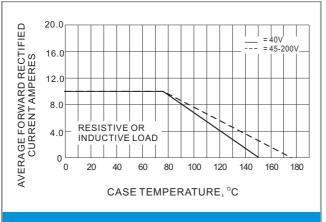


Fig.1 FORWARD CURRENT DERATING CURVE

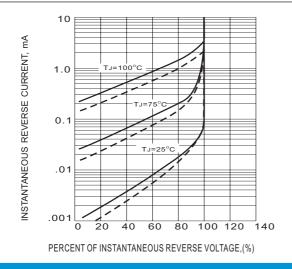
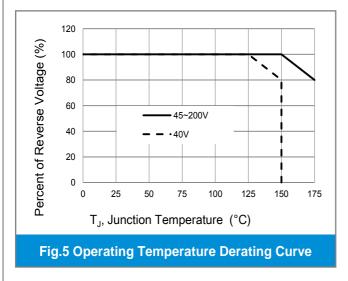


Fig.3 TYPICAL REVERSE CHARACTERISTICS



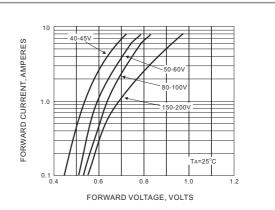


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

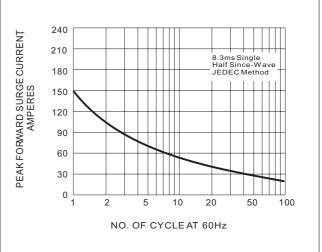
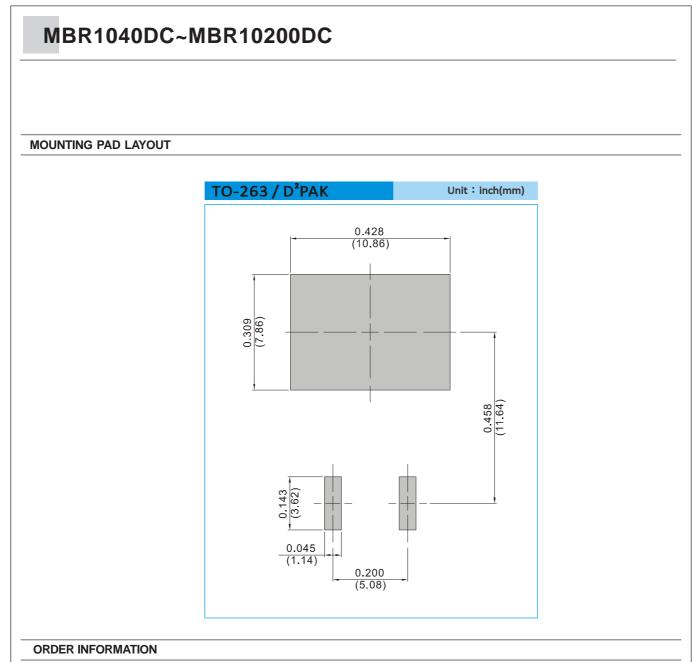


Fig.4 MAXIMUM NON - REPETITIVE SURGE CURRENT

October 5,2018-REV.02





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





Part No_packing code_Version

MBR1040DC_R2_00001

For example :

RB500V-40_R2_00001

Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

	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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