

D2PAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

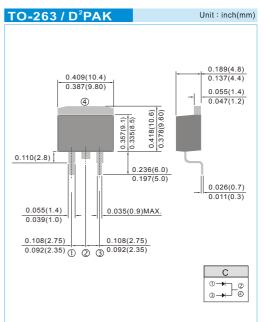
VOLTAGE 40 to 200 Volt CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- · 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

MECHANCAL DATA

- Case: D²PAK Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.Standard packaging: Any
- · Weight: 0.049 ounces, 1.38 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	Vrrm	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	Vrms	28	31.5	35	42	56	63	70	105	140	٧
Maximum DC Blocking Voltage	Voc	40	45	50	60	80	90	100	150	200	٧
Maximum Average Forward (See Figure 1)	lf(AV)	10								A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	lfsm	150								A	
Maximum Forward Voltage at 5.0A per leg	VF	0.	70	0.75		0.80			0.90		٧
Maximum DC Reverse Current at Rated DCBlocking T _J =25°C Voltage T _J =100°C	lr	0.05 20									mA
Typical Thermal Resistance	Rөлс	3.0								°C / W	
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150 -65 to +175								°C	



RATING AND CHARACTERISTIC CURVES

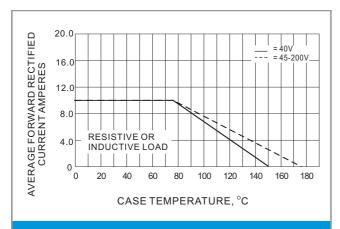


Fig.1 FORWARD CURRENT DERATING CURVE

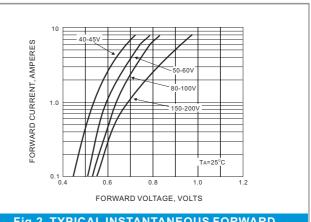


Fig.2 TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTIC

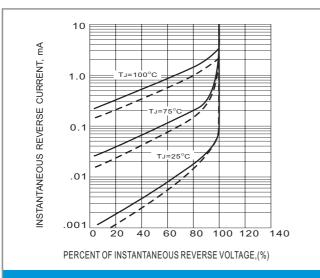


Fig.3 TYPICAL REVERSE CHARACTERISTICS

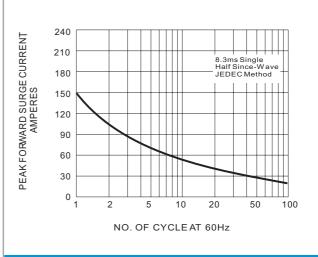


Fig.4 MAXIMUM NON - REPETITIVE SURGE CURRENT

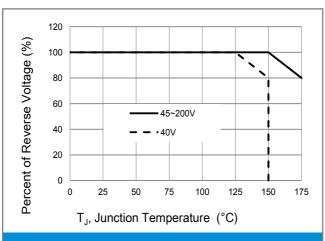
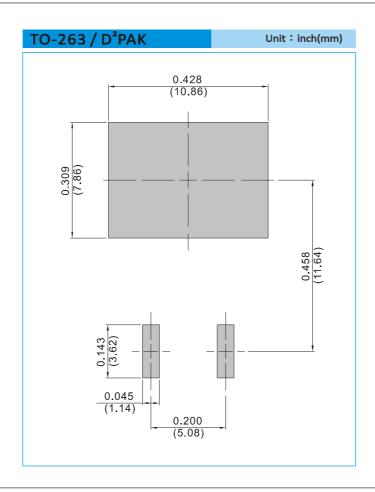


Fig.5 Operating Temperature Derating Curve



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel



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