

MBR2040CGD~MBR20200CGD

TO-263(D²PAK) SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volts

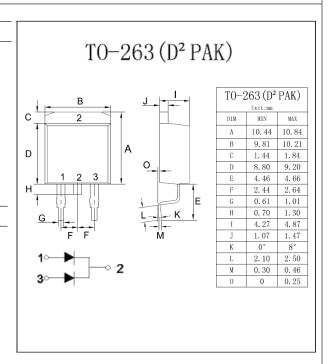
CURRENT 20 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- · Metal silicon junction, majority carrier conduction
- · Low power loss, high efficiency.
- · High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- · Lead free in comply with EU RoHS

MECHANICAL DATA

- · Case: DPAK molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

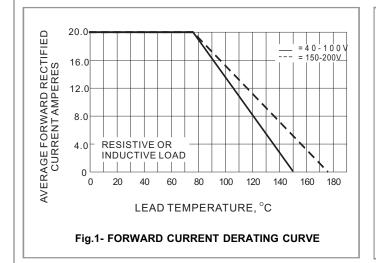
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

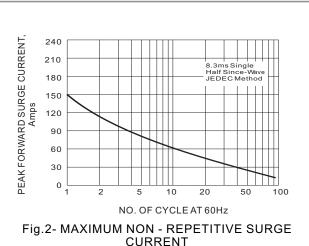
PARAMETER	SYMBOL	MBR 2040CGD	MBR 2045CGD	MBR 2050CGD	MBR 2060CGD	MBR 2080CGD	MBR 2090CGD	MBR 20100CGD	MBR 20150CGD	MBR 20200CGD	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	I _{F(AV)}	20									А
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	150A									А
Maximum Forward Voltage at 10A, per leg	V _F	0	.7	0.8		0.85			0.92		V
Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking Voltage T _J =125 °C	I _R	0.05 20 0.02 20 20								mA	
Typical Thermal Resistance	R _{eJC}	3									°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 to + 150 -55 to +175								o +175	°C



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RATING AND CHARACTERISTIC CURVES





CURRENT

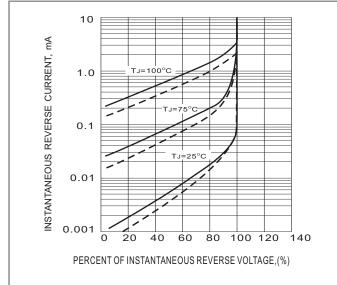
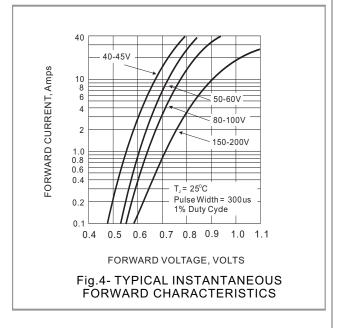


Fig.3- TYPICAL REVERSE CHARACTERISTICS



→ 迪一電子®

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