

# MBR2040CD~MBR20200CD

## 20 AMPERES SCHOTTKY BARRIER RECTIFIERS

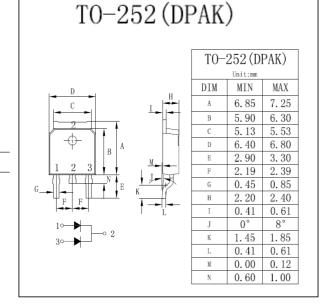
VOLTAGE	40 to 200 Volts
CURRENT	20 Amperes

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: TO-252AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- · Mounting Position: Any

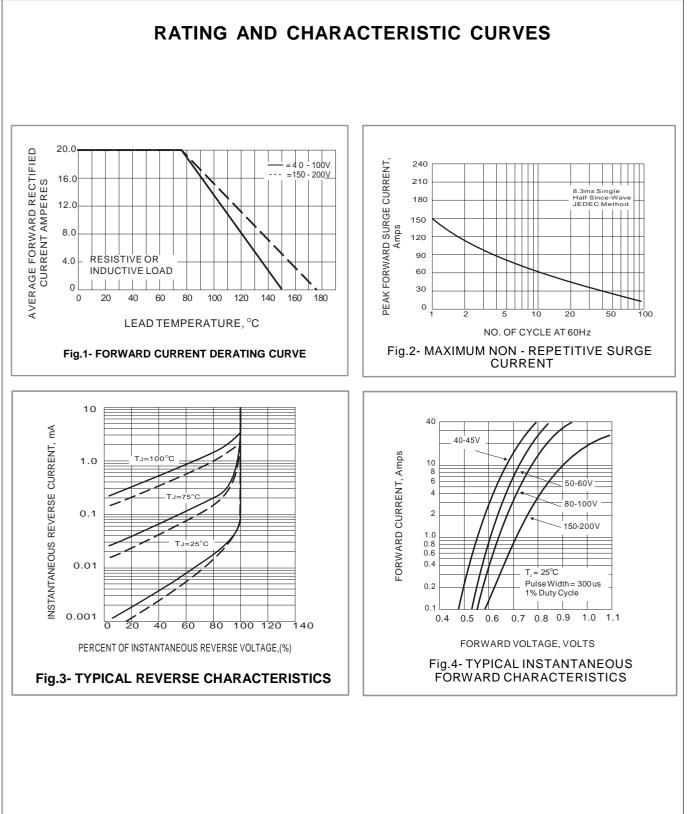


## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 2040CD	MBR 2045CD	MBR 2050CD	MBR 2060CD	MBR 2080CD	MBR 2090CD	MBR 20100CD	MBR 20150CD	MBR 20200CD	UNITS
Maximum Recurrent P e a k Reverse V o I t a g	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	V
Maximum Average Forward Current (See fig.1)	l F(AV)	20									А
Peak Forward Surge Current :8.3ms single half si ne- wave superimposed on rated load(JEDEC	I fsm	100									А
Maximum Forward Voltage at 10A, per leg	VF	0.7		0.8		0.85		0.	92	v	
Maximum DC Reverse Current T.=25 °C at Rated DC Blocking Voltage T.=125°C	IR	0.05 20								mA	
Typical Thermal Resistance	R <sub>ejc</sub>	2							°C / W		
Operating Junction and Storage Temperature Range	T,T <sub>stg</sub>	-50 to + 150 -55 to +175							+175	°C	







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