



**20A Schottky Barrir Rectifiers**  
**Voltage - 40 to 200 Volts Current - 20 Amperes**

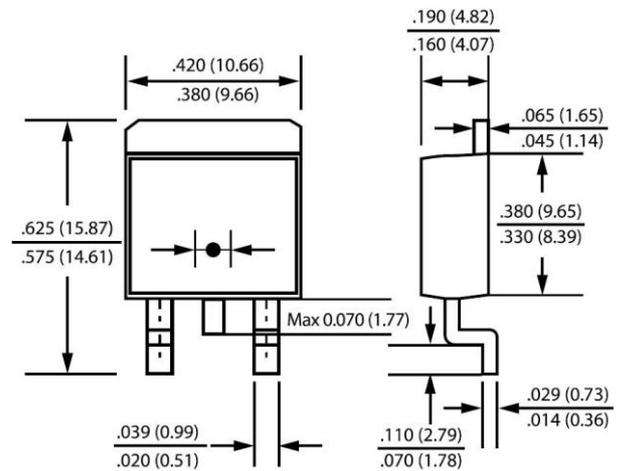


**FEATURES**

- 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 polarity protection applications.
- Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- Case: TO-263AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any



**TO-263AB**

Dimensions in inches and (millimeters)

**Maximum Rating and Electrical Characteristics**

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

TYPE NUMBER	SYMBOL	MBR 2040CD2	MBR 2045CD2	MBR 2050CD2	MBR 2060CD2	MBR 2080CD2	MBR 2090CD2	MBR 20100CD2	MBR 20150CD2	MBR 20200CD2	UNIT
Maximum Repetitive 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 figure 1)	$I_{F(AV)}$	20									A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150									A
Maximum Forward Voltage at 10A, per leg	$V_F$	0.65	0.8	0.85			0.92			V	
Maximum Reverse Current @ $T_J=25^\circ C$ At Rated DC Blocking Voltage @ $T_J=125^\circ C$	$I_R$	0.05 20									mA
Typical Junction Capacitance (Note 1)	$C_J$	700	500	400			300	250	pF		
Typical Thermal Resistance	$R_{\theta JC}$	9									$^\circ C/W$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							-55 to +175		$^\circ C$

Note:

1. Measured at 1.0MHz and applied reverse voltage of 4.0Vdc.

# DEVICE CHARACTERISTICS

## MBR2040CD2 THRU MBR20200CD2

