

**High Power Schottky Barrier Rectifier**

**Reverse Voltage - 45 V**

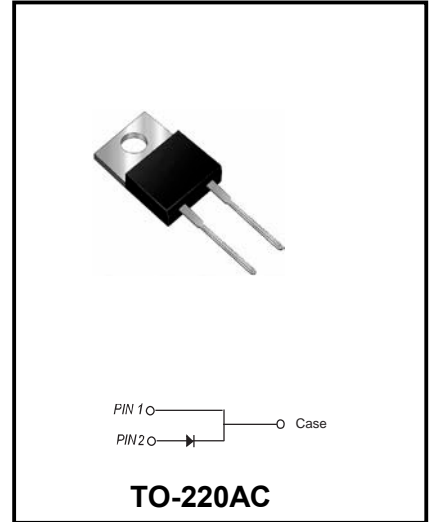
**Forward Current - 20 A**

**FEATURES**

- ◆High efficiency operation
- ◆Low power loss
- ◆High forward surge capability
- ◆Lead free in compliance with EU RoHS 2011/65/EU directive
- ◆Green molding compound as per IEC61249 Std..(Halogen Free)

**MECHANICAL DATA**

- ◆Circuit figure: Single positive
- ◆Leads: Solderable per mil-std-202, Method 208
- ◆Polarity:as marked
- ◆Mounting torque:5 in-lbs maximum
- ◆Terminals:Puretin plated



**Primary Characteristic**

<b>I<sub>AV</sub></b>	<b>20A</b>
<b>V<sub>RRM</sub></b>	<b>45V</b>
<b>I<sub>FSM</sub></b>	<b>150A</b>
<b>V<sub>F</sub></b>	<b>0.57V</b>
<b>T<sub>J</sub> Max</b>	<b>150°C</b>

**Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified**

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	<b>V<sub>RRM</sub></b>	45	<b>V</b>
Maximum RMS voltage	<b>V<sub>RMS</sub></b>	31.5	<b>V</b>
Maximum DC Blocking Voltage	<b>V<sub>DC</sub></b>	45	<b>V</b>
Maximum average forward current	<b>I<sub>AV</sub></b>	20	<b>A</b>
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	<b>I<sub>FSM</sub></b>	150	<b>A</b>
Operating Temperature Range	<b>T<sub>J</sub></b>	-55 ~ +150	<b>°C</b>
Storage Temperature Range	<b>T<sub>STG</sub></b>	-65 ~ +175	<b>°C</b>
Typical thermal resistance	<b>R<sub>θJC</sub></b>	2	<b>°C/W</b>

**Electrical Characteristics (Per Leg) unless otherwise specified**

Characteristics	Symbols	Value	Units
Maximum forward voltage I <sub>F</sub> =10A	<b>V<sub>F</sub></b>	0.57	<b>V</b>
Maximum average reverse current at rated DC blocking voltage	<b>I<sub>R</sub></b>	TA=25°C	0.10
		TA=125°C	15

**RATINGS AND CHARACTERISTIC CURVES**

Fig.1 - Forward Current Derating Curve

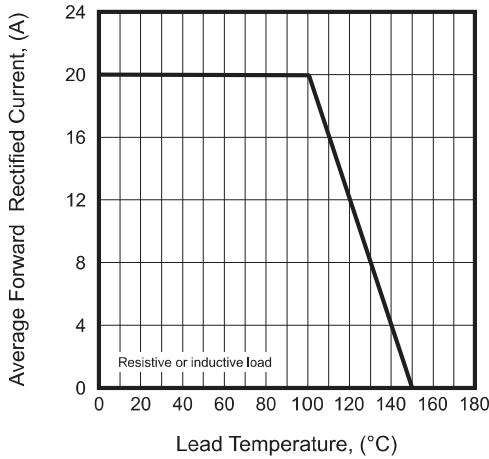


Fig.2 - Maximum Non-Repetitive Forward Surge Current

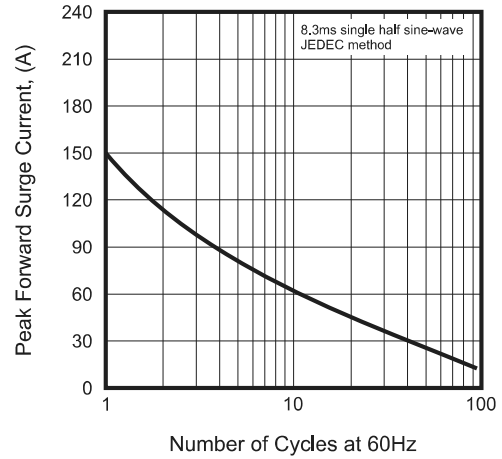


Fig.3 - Typical Reverse Characteristics

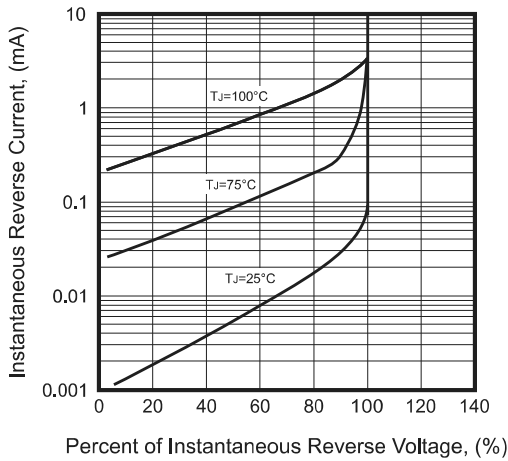
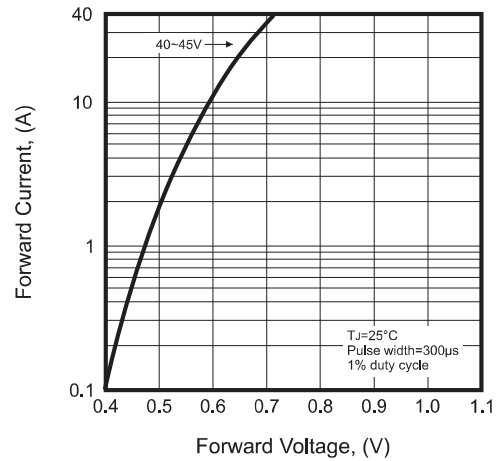
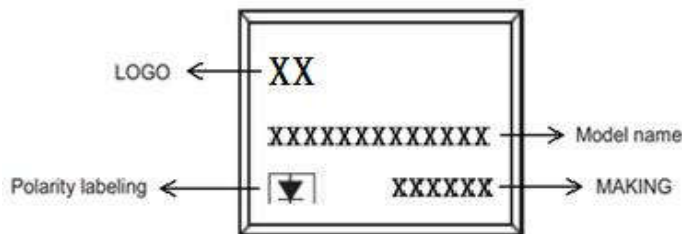


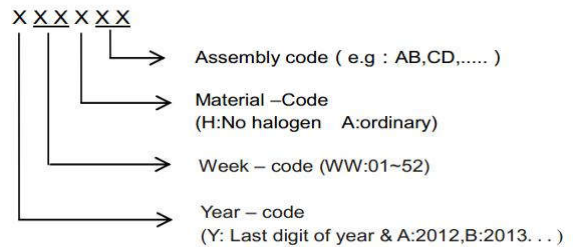
Fig.4 - Typical Instantaneous Forward Characteristics



**Marking on the body**



**MAKING:**



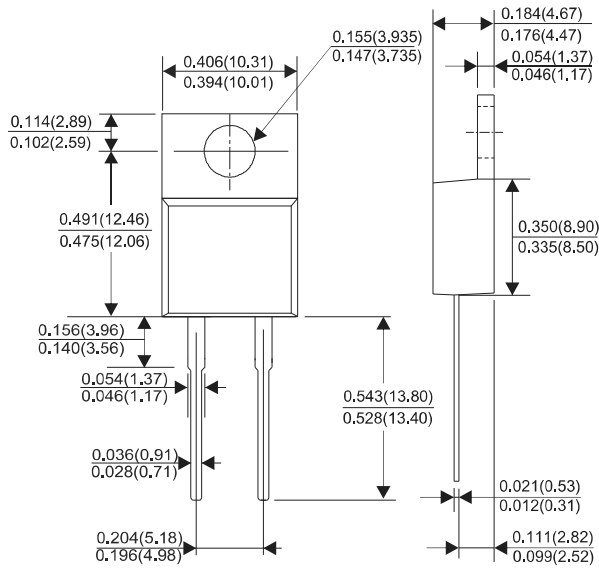
**Ordering information**

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR2045AC	TO-220AC	1.80g	50 pcs / tube	1000pcs/box 5000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-220AC



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