

High Power Schottky Barrier Rectifier

Reverse Voltage - 45 V

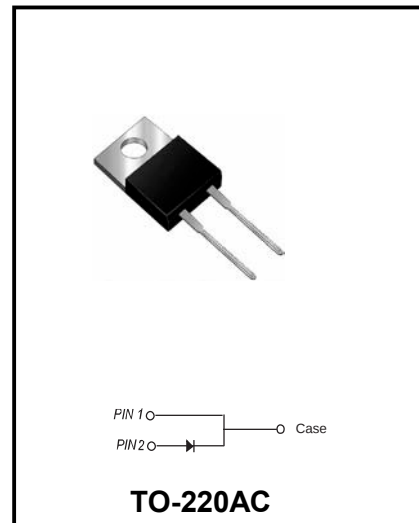
Forward Current - 20 A

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

I_{AV}	20A
V_{RRM}	45V
I_{FSM}	150A
V_F	0.57V
T_J Max	150°C

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

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	31.5	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum average forward current	I_{AV}	20	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	150	A
Operating Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +175	°C
Typical thermal resistance	R_{θJC}	2	°C/W

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbols	Value	Units
Maximum forward voltage I _F =10A	V_F	0.57	V
Maximum average reverse current at rated DC blocking voltage	I_R	0.10	mA
		15	mA

RATINGS AND CHARACTERISTIC CURVES

Fig.1 - Forward Current Derating Curve

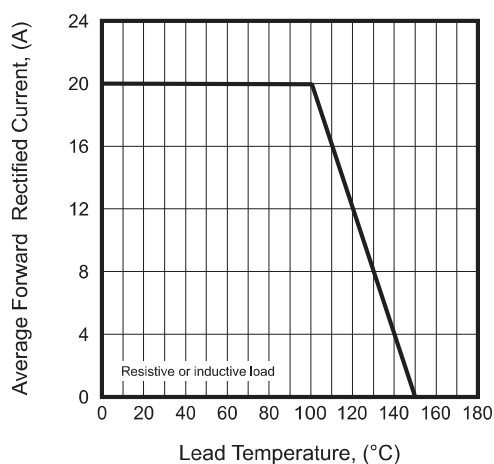


Fig.2 - Maximum Non-Repetitive Forward Surge Current

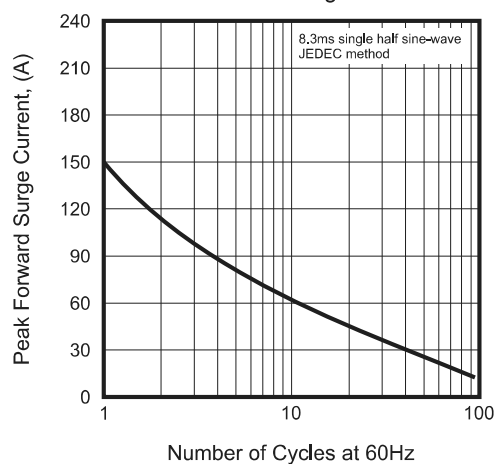


Fig.3 - Typical Reverse Characteristics

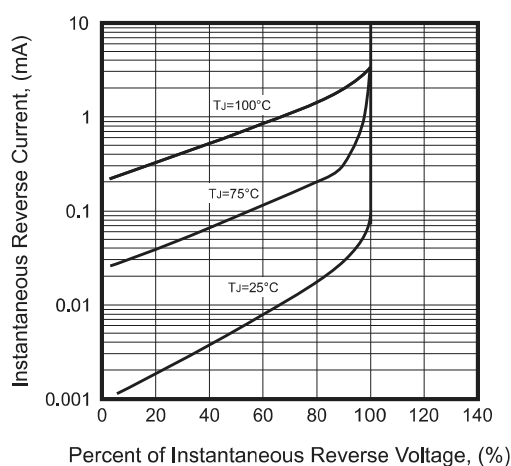
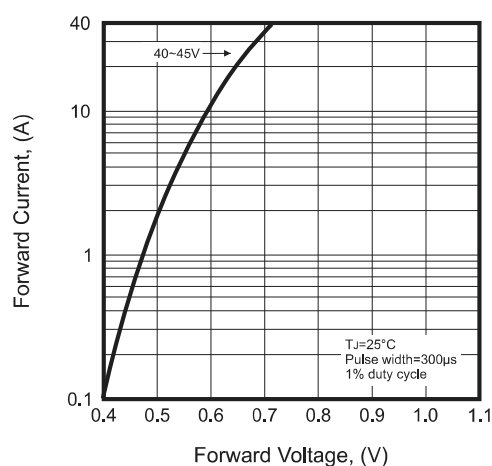
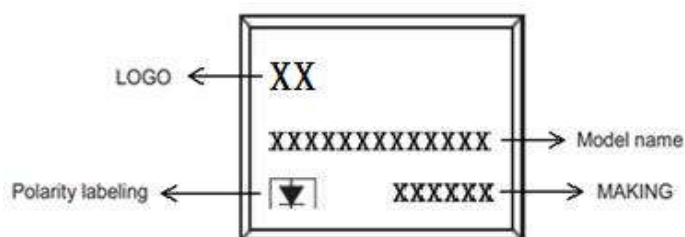


Fig.4 - Typical Instantaneous Forward Characteristics



Marking on the body



MAKING:

X X X X X
 → Assembly code (e.g : AB,CD,.....)
 → Material -Code
 (H:No halogen A:ordinary)
 → Week - code (WW:01~52)
 → Year - code
 (Y: Last digit of year & A:2012,B:2013...)

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

