



MBR10150CT THRU MBR1020CT

Reverse Voltage - 150 to 200 Volts Forward Current - 10.0 Ampere

SCHOTTKY BARRIER RECTIFIER

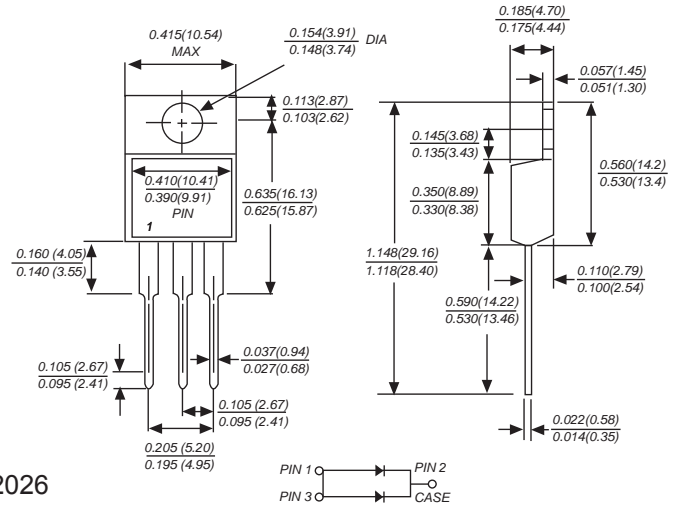
Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C, 0.25" (6.35mm) from case for 10 seconds

Mechanical Data

Case : JEDEC TO-220AB Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.060 ounce, 1.67 grams

TO-220AB



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MBR 10150CT	MBR 10200CT	UNITS
		MDD MBR 10150CT	MDD MBR 10200CT	
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RMS voltage	V_{RMS}	135	140	V
Maximum DC blocking voltage	V_{DC}	150	200	V
Maximum average forward rectified current (see fig. 1)	I_{AV}	10.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125		A
Maximum instantaneous forward voltage at 15.0A	V_F	0.95		V
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	I_R	0.1 15.0		mA
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	1.5		$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	-50 to +150		$^\circ\text{C}$
storage temperature range	T_{STG}	-50 to +150		$^\circ\text{C}$

Note:2. Thermal resistance from junction to case.



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Ratings And Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

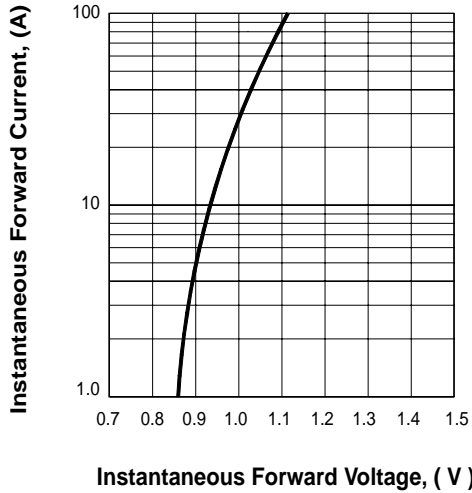


FIG.2 FORWARD DERATING CURVE

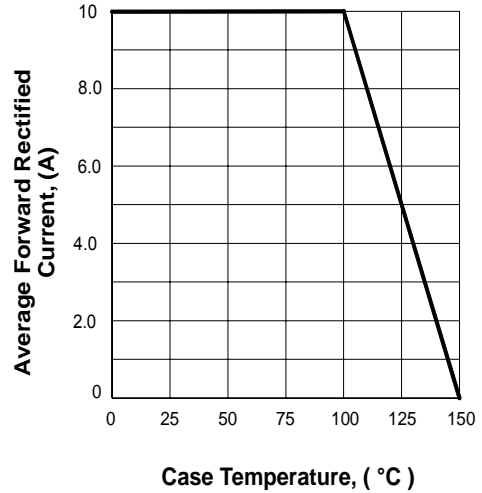
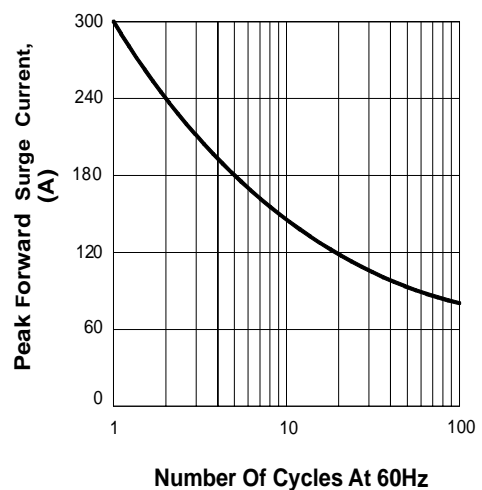
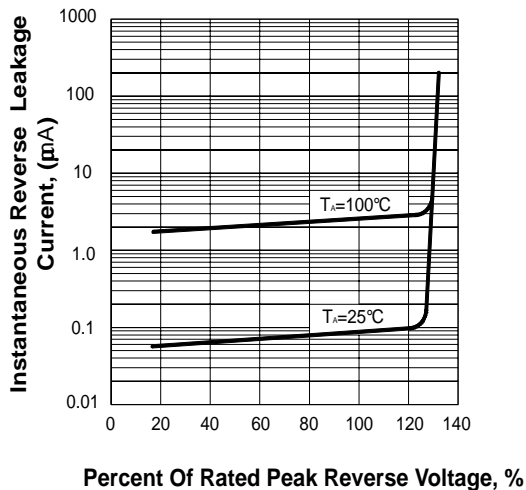


FIG.3 TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.