



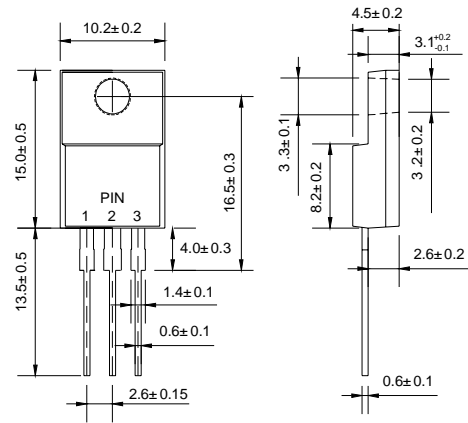
ITO-220AB

Features

- ◇ High surge capacity.
- ◇ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ◇ Metal silicon junction, majority carrier conduction.
- ◇ High current capacity, low forward voltage drop.
- ◇ Guard ring for over voltage protection.

Mechanical Data

- ◇ Case: JEDEC ITO-220AB, molded plastic body
- ◇ Polarity: As marked
- ◇ Position: Any
- ◇ Weight: 0.06ounce, 1.67 grams



Dimensions in 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, derate current by 20%.

		MBR 1030CTP	MBR 1035CTP	MBR 1040CTP	MBR 1045CTP	MBR 1050CTP	MBR 1060CTP	MBR 1090CTP	MBR 10100CTP	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	30	35	40	45	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	21	25	28	32	35	42	63	70	V
Maximum DC blocking voltage	V_{DC}	30	35	40	45	50	60	90	100	V
Maximum average forward total device rectified current @ $T_C = 105^\circ\text{C}$	$I_{F(AV)}$	10								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125								A
Maximum forward voltage ($I_F=5.0\text{A}, T_C=125^\circ\text{C}$) ($I_F=5.0\text{A}, T_C=25^\circ\text{C}$) (Note 1) ($I_F=10\text{A}, T_C=25^\circ\text{C}$)	V_F		0.57			0.70		-		V
			0.70			0.80		0.85		
			0.84			0.95		-		
Maximum reverse current @ $T_C=25^\circ\text{C}$ at rated DC blocking voltage @ $T_C=125^\circ\text{C}$	I_R				0.1					m A
				15				6.0 ³⁾		
Maximum thermal resistance (Note2)	$R_{\theta JC}$			6.8				4.4		$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J			- 55				+ 150		$^\circ\text{C}$
Storage temperature range	T_{STG}			- 55				+ 150		$^\circ\text{C}$

NOTE: 1. Pulse test: 300µs pulse width, 1% duty cycle.

2. Thermal resistance from junction to case.

3. $T_C=100^\circ\text{C}$



Ratings AND Characteristic Curves

FIG.1 – PEAK FORWARD SURGE CURRENT

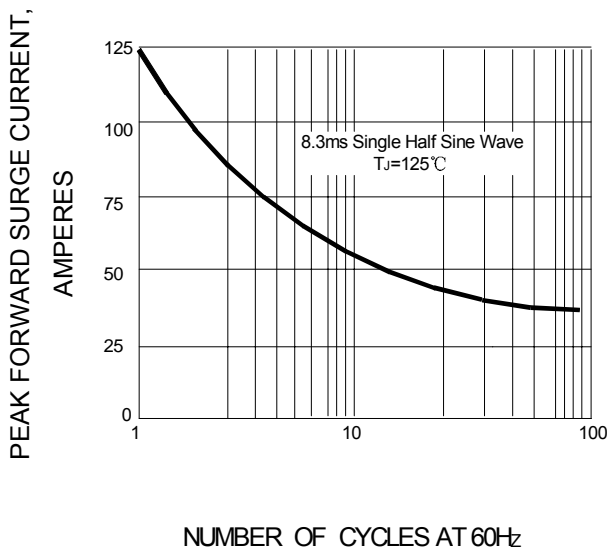


FIG.2 – FORWARD DERATING CURVE

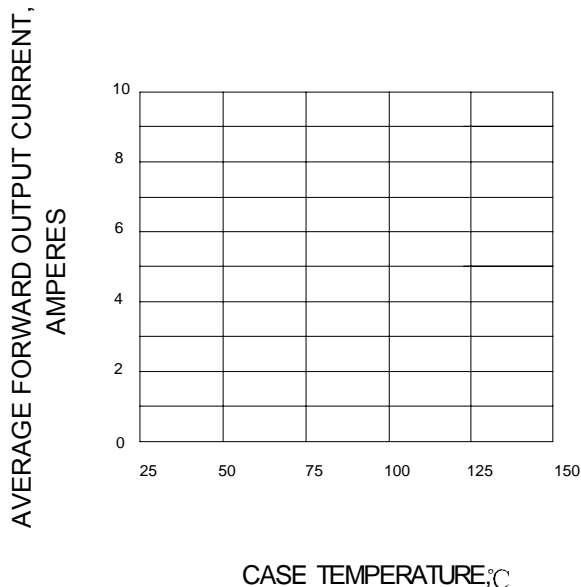


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

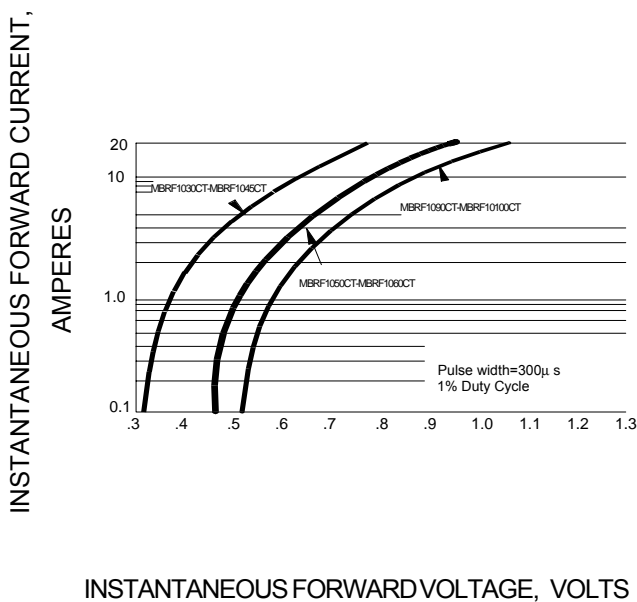
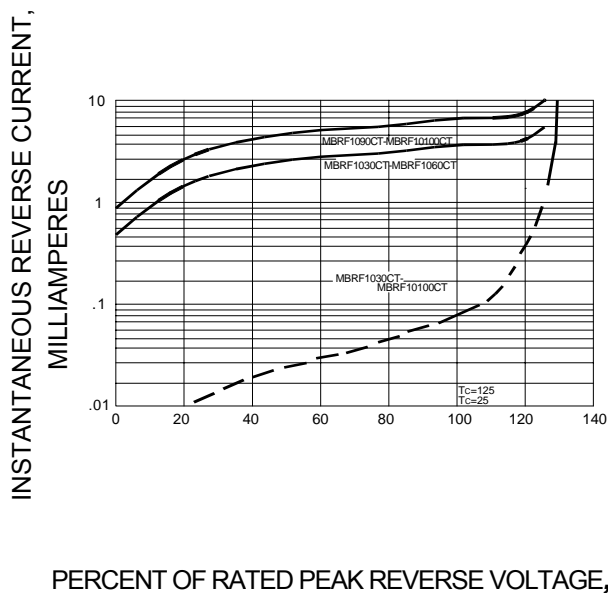


FIG.4 – TYPICAL REVERSE CHARACTERISTIC



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