

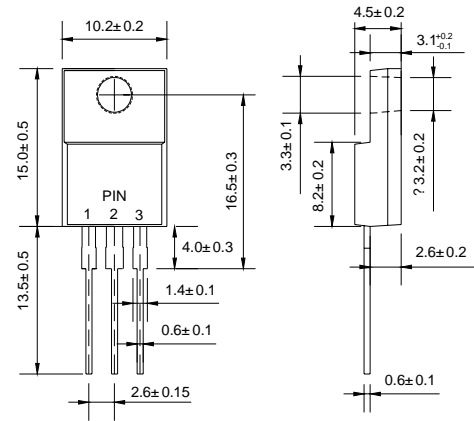
ITO-220AB

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: 0.06 ounce, 1.67 grams



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

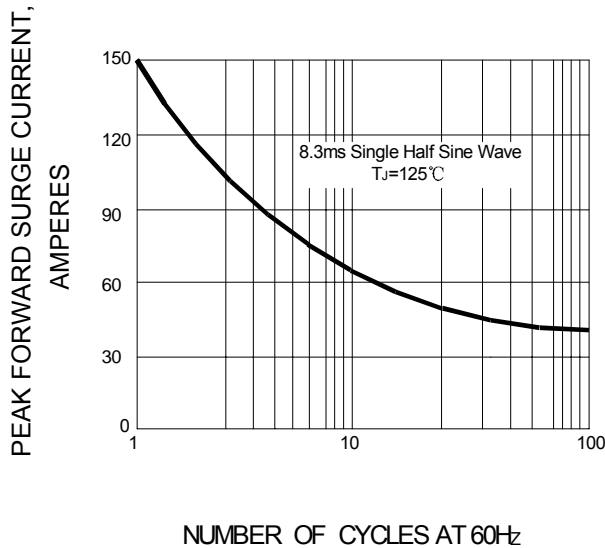
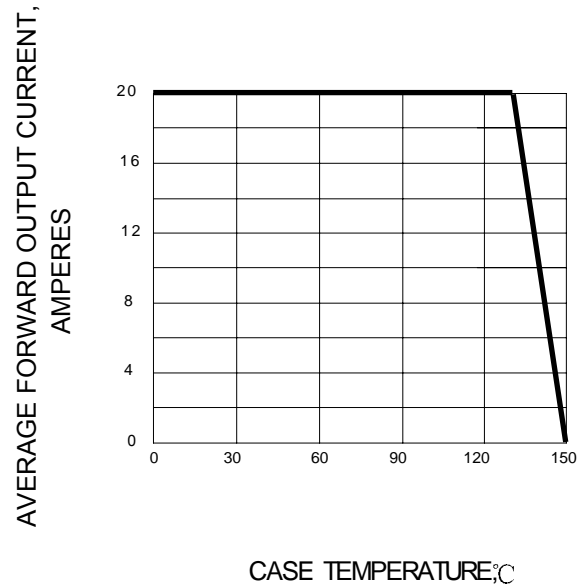
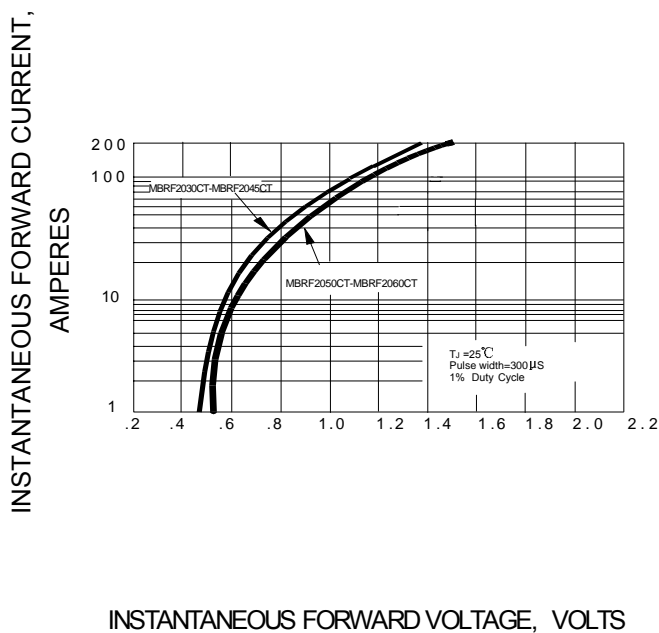
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		MBRF 2030CT	MBRF 2035CT	MBRF 2040CT	MBRF 2045CT	MBRF 2050CT	MBRF 2060CT	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	30	35	40	45	50	60	V
Maximum RMS Voltage	V_{RMS}	21	25	28	32	35	42	V
Maximum DC blocking voltage	V_{DC}	30	35	40	45	50	60	V
Maximum average forward total device rectified current @ $T_c = 135^\circ\text{C}$	$I_{F(AV)}$	20						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150						A
Maximum forward voltage (Note 1)	V_F	-				0.80	0.70	V
		0.57				0.95	0.85	
		0.84						
		0.72						
Maximum reverse current at rated DC blocking voltage	I_R	0.1				0.15		m A
		15				150		
Maximum thermal resistance (Note2)	$R_{\theta JC}$	2.0						°C/W
Operating junction temperature range	T_J	- 55 ---- + 150						°C
Storage temperature range	T_{STG}	- 55 ---- + 150						°C

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

2. Thermal resistance from junction to case.

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
