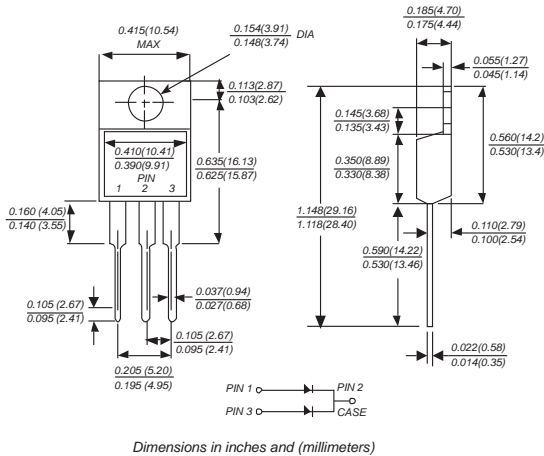


TO-220AB



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: TO-220AB molded plastic body
Terminals: Leads solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Weight: 0.08 ounce, 2.24 grams

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%.

	SYMBOLS	MBR 2040CT	MBR 2045CT	MBR 2060CT	MBR 20100CT	MBR 20150CT	MBR 20200CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	45	60	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	28	32	42	70	105	140	VOLTS
Maximum DC blocking voltage	V_{DC}	40	45	60	100	150	200	VOLTS
Maximum average forward rectified current at T_c (see fig.1)	$I_{(AV)}$	20.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150.0						Amps
Maximum instantaneous forward voltage at 10.0A	V_F	0.60	0.70	0.85	0.93			Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	1.0						mA
		15.0	50.0					
Typical junction capacitance (NOTE 1)	C_J	550	450				pF	
Typical thermal resistance (NOTE 2)	R_{qjc}	2.0						$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	-65 to +125		-65 to +150			$^\circ\text{C}$	
Storage temperature range	T_{STG}	-65 to +150						$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. Thermal resistance from junction to case

