

MUR1620CT

PRV : 200 Volts
Io : 8.0 Ampere

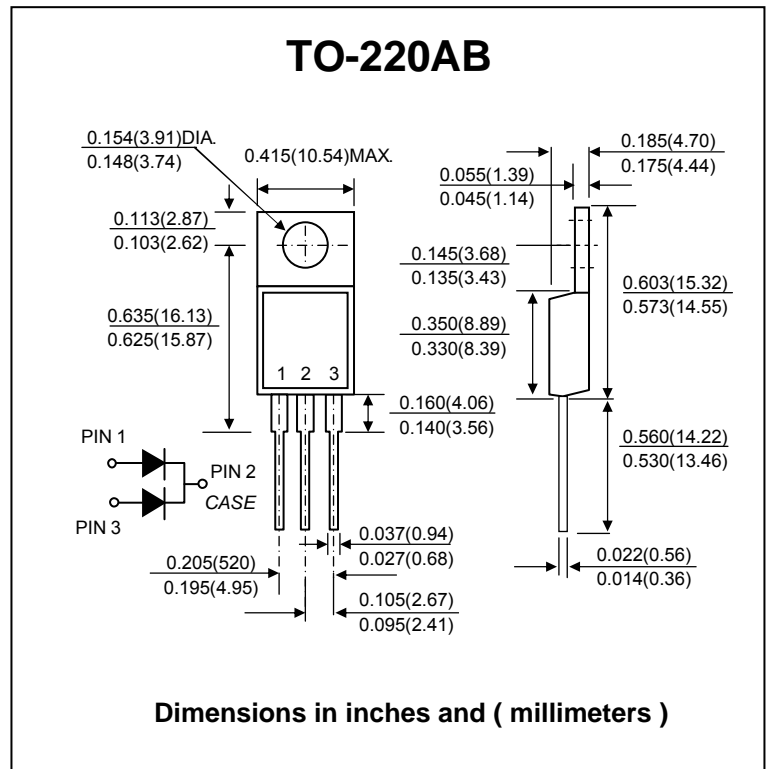
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Epoxy, Molded
- * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- * Weight : 2.1 grams (Approximately)

ULTRAFAST RECTIFIER



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Maximum Working Reverse Voltage	V _{RWM}	200	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Current Total Device, (Rated V _R), T _c = 150°C	I _{F(AV)}	8.0 (Per Leg) 16 (Total Device)	A
Maximum Peak Rectified Forward Current (Rated V _R , Square Wave, 20 kHz) T _c = 150°C	I _{FRM}	16	A
Maximum Non-repetitive Peak Forward Surge Current (Halfwave, single phase, 60 Hz) Per Leg	I _{FSM}	100	A
Maximum Forward Voltage at I _F = 8 A, T _c = 25°C	V _F	0.975 ⁽¹⁾	V
Maximum Instantaneous Reverse Current ⁽¹⁾ (Rated dc Voltage)	I _R I _{R(H)}	5 (T _c = 25°C) 250 (T _c = 150°C)	μA
Maximum Reverse Recovery Time (I _F = 0.5A, I _R = 1A ; I _{rr} = 0.25 A)	T _{rr}	35	ns
Maximum Thermal Resistance, Junction to Case	R _{θJC}	3.0	°C/W
Junction Temperature Range	T _J	- 65 to + 175	°C
Storage Temperature Range	T _{STG}	- 65 to + 175	°C

Note :

(1) Pulse Test : Pulse Width = 300 μs, Duty Cycle ≤ 2.0%

RATING AND CHARACTERISTIC CURVES (MUR1620CT)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

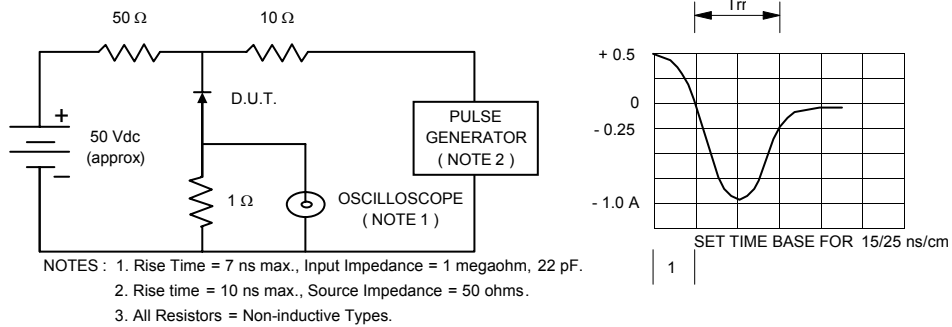


FIG. 2 - CURRENT DERATING CASE, PER LEG

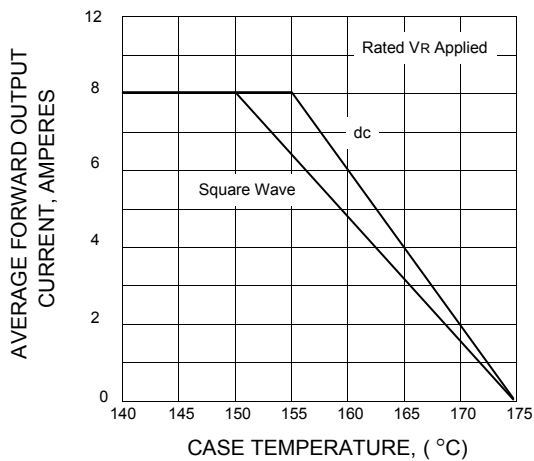


FIG. 3 - POWER DISSIPATION, PER LEG

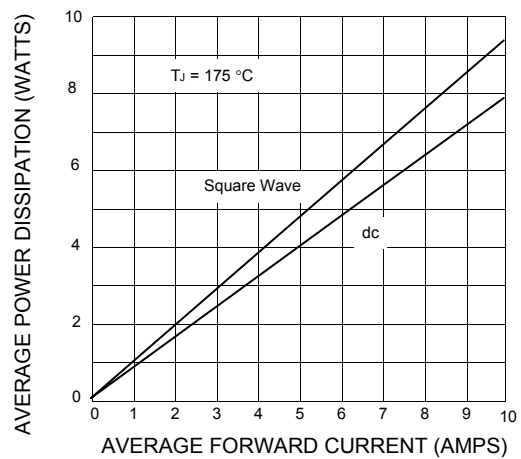


FIG. 4 - TYPICAL FORWARD VOLTAGE, PER LEG

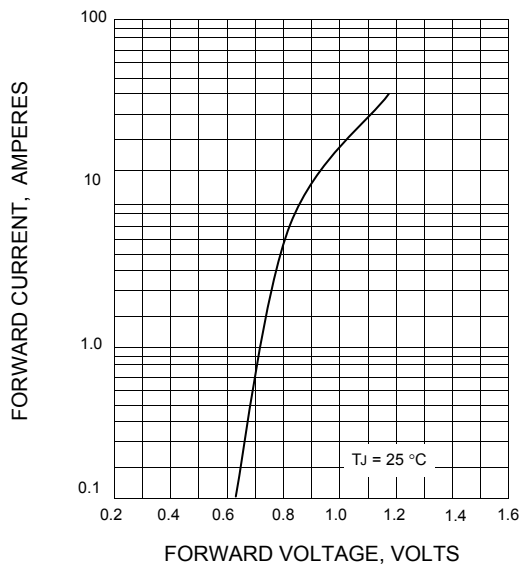


FIG. 5 - TYPICAL REVERSE CURRENT, PER LEG

