

MUR1620CT

PRV : 200 Volts
Io : 8.0 Ampere

FEATURES :

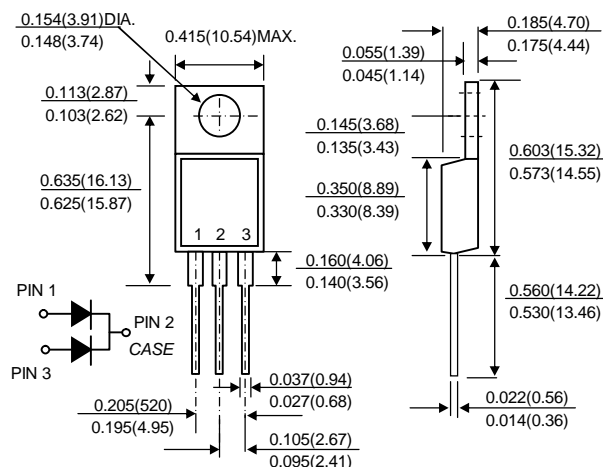
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

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

ULTRAFAST RECTIFIERS

TO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	200	V
Maximum Working Reverse Voltage	VRWM	200	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Current Total Device, (Rated VR), Tc = 150°C	IF(AV)	8.0 (Per Leg) 16 (Total Device)	A
Maximum Peak Rectified Forward Current (Rated VR, Square Wave, 20 kHz) Tc = 150°C	IFRM	16	A
Maximum Non-repetitive Peak Forward Surge Current (Halfwave, single phase, 60 Hz) Per Leg	IFSM	100	A
Maximum Forward Voltage at If = 8 A, Tc = 25°C	VF	0.975 ⁽¹⁾	V
Maximum Instantaneous Reverse Current ⁽¹⁾ (Rated dc Voltage)	IR	5 (Tc = 25°C)	μA
	IR(H)	250 (Tc = 150°C)	μA
Maximum Reverse Recovery Time (If = 0.5A, IR = 1A ; Irr = 0.25 A)	Trr	25	ns
Maximum Thermal Resistance, Junction to Case	RθJC	3.0	°C/W
Junction Temperature Range	TJ	- 65 to + 175	°C
Storage Temperature Range	TSTG	- 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

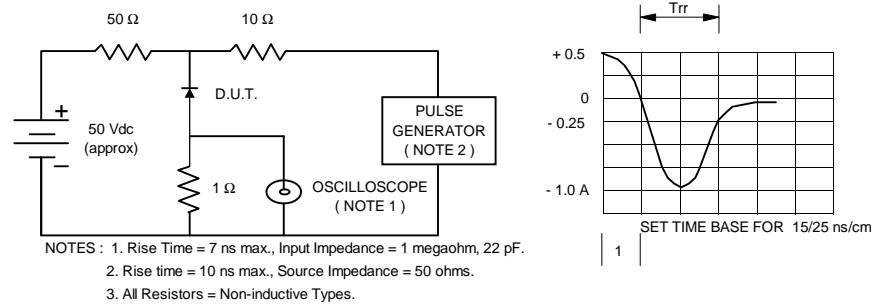


FIG. 2 - CURRENT DERATING CASE, PER LEG

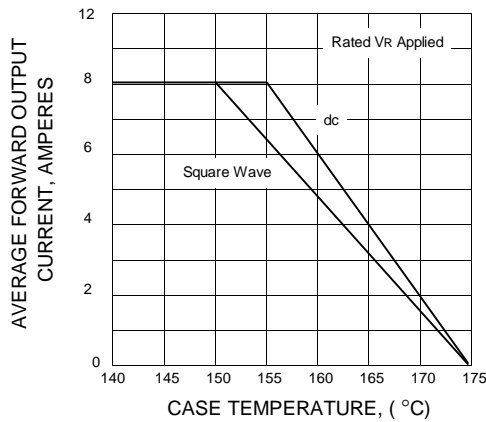


FIG. 3 - POWER DISSIPATION, PER LEG

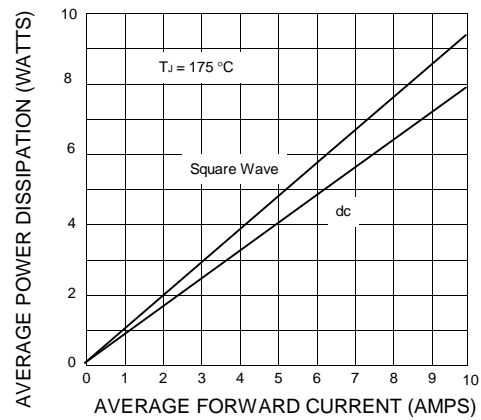


FIG. 4 - TYPICAL FORWARD VOLTAGE, PER LEG

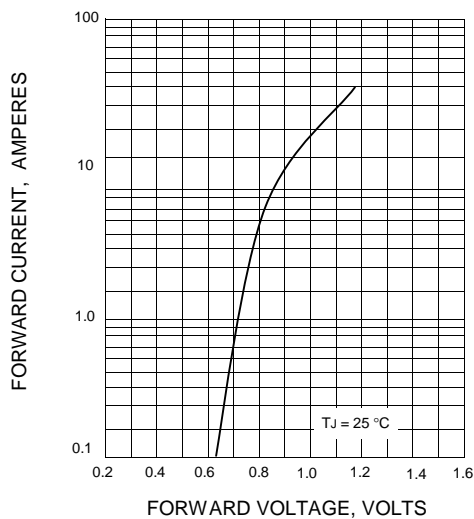


FIG. 5 - TYPICAL REVERSE CURRENT, PER LEG

