

MUR1620CT THRU MUR1660CT

Switch mode Power Rectifiers

Features

- * Ultrafast 35 and 60 Nanosecond Recovery times
- * 175°C operating Junction Temperature
- * Popular TO-220AB Package
- * Epoxy meets UL94, V0 @ 1/8"
- * High temperature glass passivated junction
- * High voltage capability to 600 volts
- * Low leakage specified @ 150°C case temperature
- * Current derating @ both case and ambient temperatures

Mechanical Data

- * Case: Epoxy, molded
- * Terminal: Pure tin plated, lead free
- * Lead temperature for soldering purposes:

260°C Max. for 10 seconds

* Finish: all external surfaces corrosion resistant and terminal leads are readily solderable

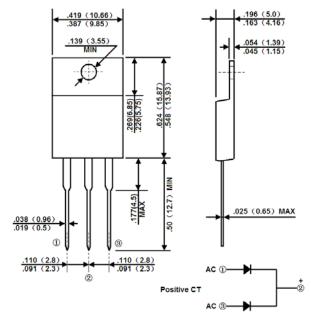






Package Outline Dimensions in inches (millimeters)

TO-220AB:



Maximum Ratings and Electrical Characteristics

Rating at 25 $\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	MUR1620CT	MUR1640CT	MUR1660CT	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS Voltage	V_{RMS}	140	280	420	V
Maximum D.C Blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	16		Α	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	100		Α	
Maximum Instantaneous Forward Voltage (Note 1) @ IF=8 A, TA=25℃ @ IF=8 A, TA=150℃	V _F	0.975 0.895	1.3 1.1	1.5 1.2	V
Maximum D.C Reverse Current @ T_A =25°C at Rated D.C Blocking Voltage @ T_A =125°C	I _R	5 250	10 500		μΑ
Maximum Reverse Recovery Time (Note 2)	Trr	25	50		nS
Typical Thermal Resistance	$R_{ heta JC}$	3.0	2.0		°C/W
Operating and Storage Temperature Range	T _J /T _{STG}	-55 to +175			$^{\circ}$ C

Note:1、Pulse Test with PW=300 usec, 1% Duty Cycle 2、Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

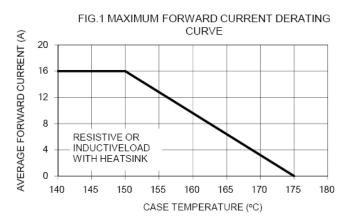
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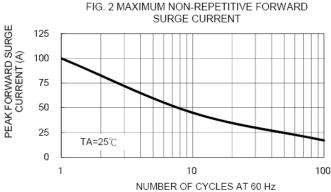


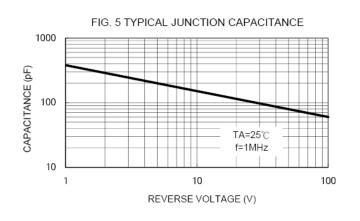
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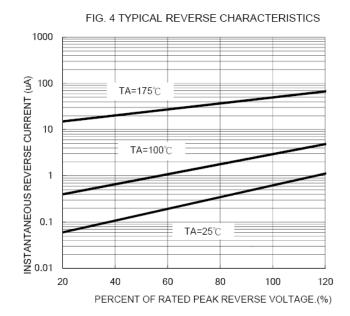
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Ratings and Characteristic Curves









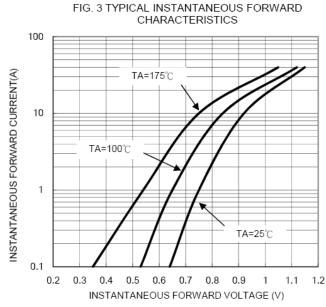
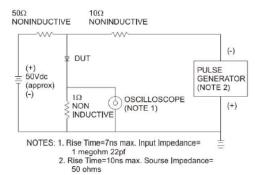
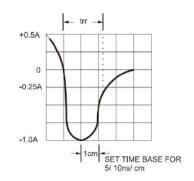


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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Ordering Information

Part No.	Package	Packing
MUR1620CT~MUR1660CT	TO-220AB	50pcs/Tube

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