



Super Fast Recovery Power Rectifier

Designer for used the switching power supply. Inverter, free wheeling, and polarity protection application.

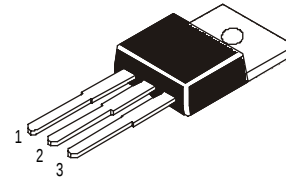
Features

- *Glass passivation chip junction.
- *Fast switching for high efficiency
- *High reliability
- *Low forward voltage ,high current capacity

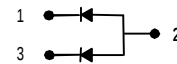
Mechanical Data

- *Case:TO-220AB molded plastic
- *Epoxy: UL 94V-0 rate flame retardant
- *Terminals: Pure tin plate, lead free, solderable per MIL-STD-202, method 208 guaranteed
- *Polarity: as marked

PIN CONFIGURATION



TO-220AB



Common Anode
Suffix "R"

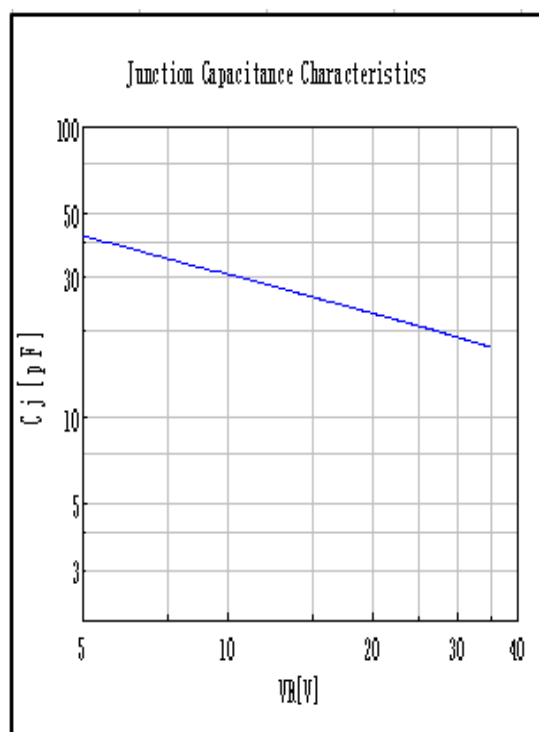
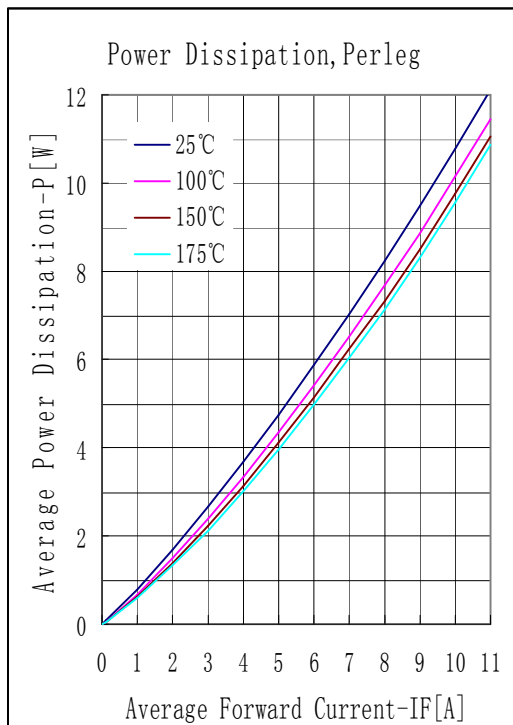
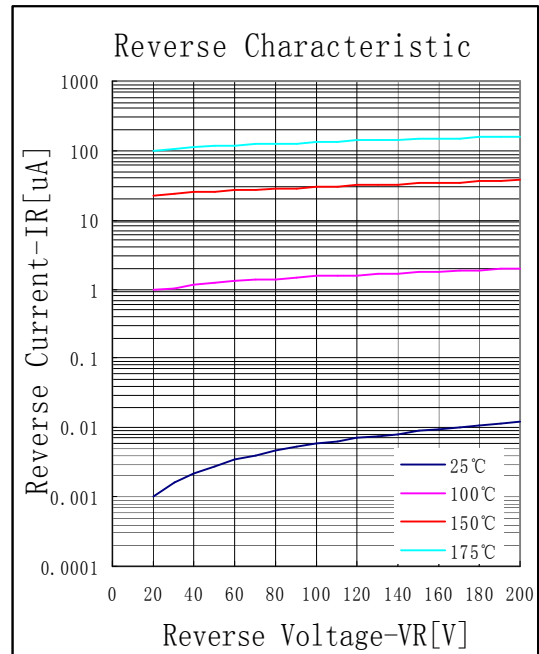
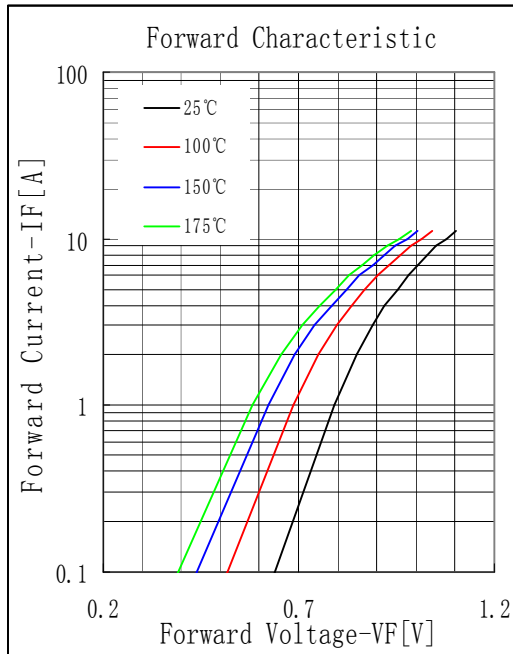
Maximum Ratings and Electrical Characteristics

Characteristics	Symbol	Typical data	Final Spec	Unit
Peak Repetitive Reverse Voltage	V_{rrm}			
Working Peak Reverse Voltage	V_{rwm}	230-250	200	V
DC Blocking Voltage	V_r			
RMS reverse Voltage	$V_r(rms)$		150	V
Average Rectifier Forward Current Per Leg $T_c=125C$ Total Device	$I_F(AV)$		6 12	A
Peak Repetitivity Forward Current (Rate V_r , Square Wave, 20kHz)	I_{FM}		12	A
Non-Repetitivity Peak Surge Current Maximum Instantaneous Forward	I_{FSM}		100	A
Forward Voltage @ 6 A	V_F	0.93-0.95	0.97	V
Maximum Instanteous Reverse Current (Rated DC Voltage , $T_c=25C$) (Rated DC Voltage, $T_c=125c$)	I_R	<1	5 100	μA
Reverse Recovery Time ($I_f=0.5A, I_r=1.0, I_{rr}=0.25A$)	T_{rr}	25-30	35	ns
Typical Juntion Capocitance (Reverse Voltage of 4 volts & $f=1MHz$)	C_p		55	pF
Operation and Storage Temp Range	$T_j; T_{stg}$		-65to150	$^{\circ}C$



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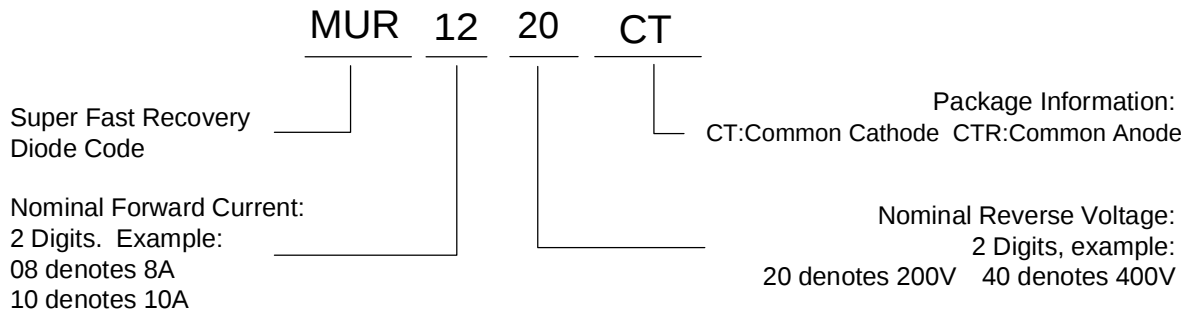
TYPICAL CHARACTERISTICS





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NOMENCLATURE



ORDERING SPECIFICATIONS

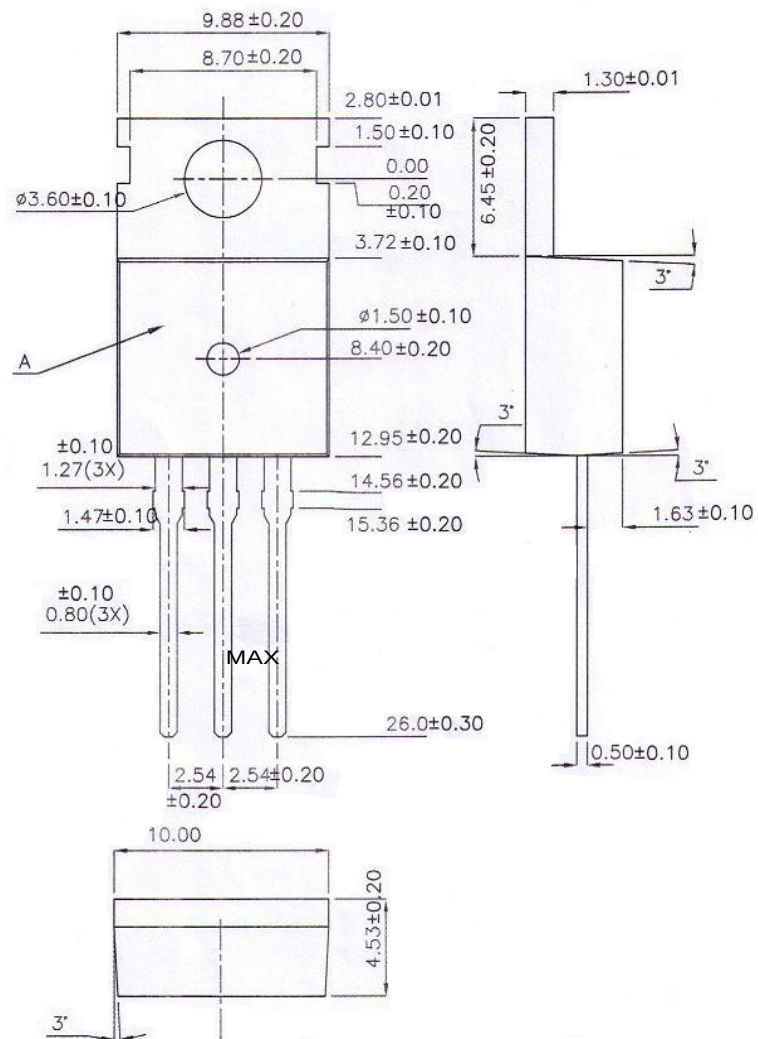
Part No.	Package	Marking	Shipping
MUR1220CTR	TO220AB	MUR1220CTR	50Unit/Tube

THERMAL CHARACTERISTICS (Per Leg)

Parameter	Symbol	MUR1220CT	Unit
Thermal Resistance, Junction-to-Case	R _{θJC}	3.0	°C/W



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Dimensions in millimeters

TO-220AB