



### Super Fast Recovery Power Rectifier

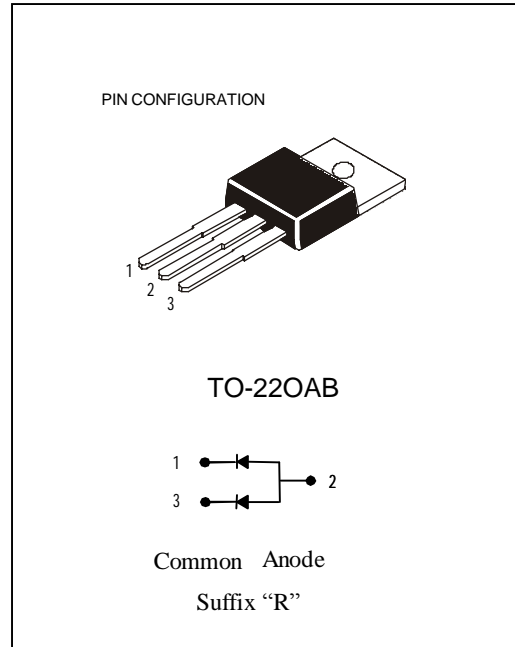
Designer for used the switching power supply. Inverter, free wheeling, and polarity protection application.

#### 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



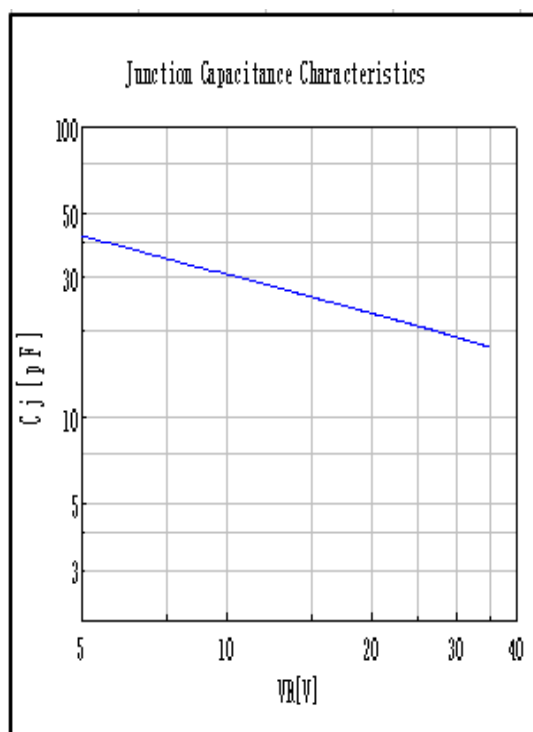
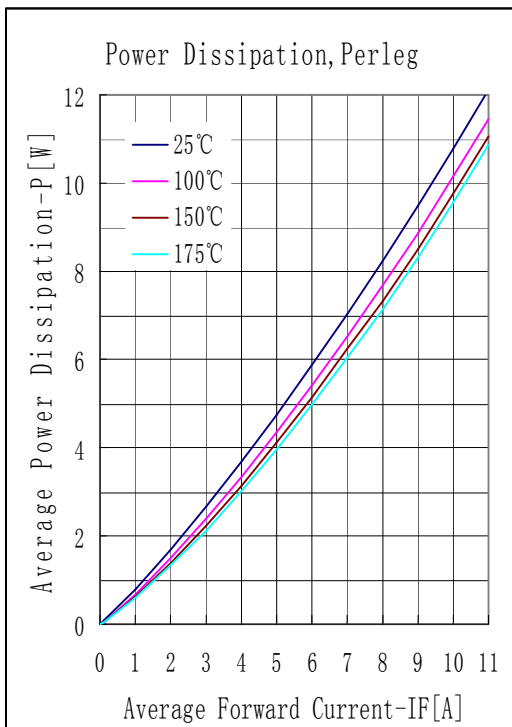
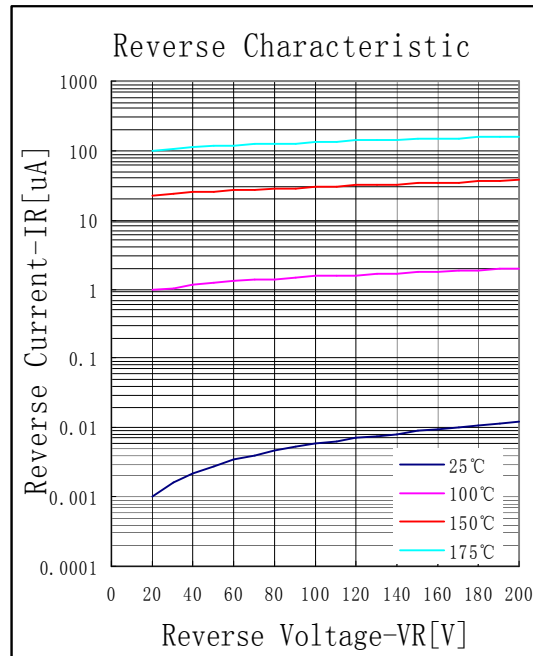
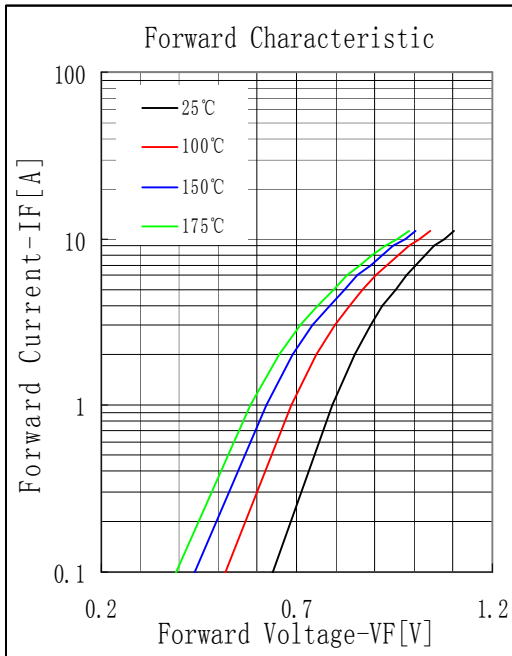
#### Maximum Ratings and Electrical Characteristics

Characteristics	Symbol	Typical data	Final Spec	Unit
Peak Repetitive Reverse Voltage	V <sub>rrm</sub>			
Working Peak Reverse Voltage	V <sub>rwm</sub>	230-250	200	V
DC Blocking Voltage	V <sub>r</sub>			
RMS reverse Voltage	V <sub>r(rms)</sub>		150	V
Average Rectifier Forward Current Per Leg T <sub>c</sub> =125C	I <sub>F(AV)</sub>		6	A
Total Device			12	
Peak Repetitivity Forward Current (Rate V <sub>r</sub> , Square Wave,20kHz)	I <sub>FM</sub>		12	A
Non-Repetitivity Peak Surge Current Maximum Instantaneous Forward	I <sub>FSM</sub>		100	A
Forward Voltage @ 6 A	V <sub>F</sub>	0.93-0.95	0.97	V
Maximum Instanteous Reverse Current (Rated DC Voltage ,T <sub>c</sub> =25C) (Rated DC Voltage,T <sub>c</sub> =125c)	I <sub>R</sub>	<1	5 100	uA
Reverse Recovery Time (I <sub>f</sub> =0.5A,I <sub>r</sub> =1.0, I <sub>rr</sub> =0.25A)	T <sub>rr</sub>	25-30	35	ns
Typical Juntion Capacitance (Reverse Voltage of 4 volts &f=1MHz)	C <sub>p</sub>		55	pF
Operation and Storage Temp Range	T <sub>j</sub> ; T <sub>stg</sub>		-65to150	°C



### Super Fast Recovery Power Rectifier

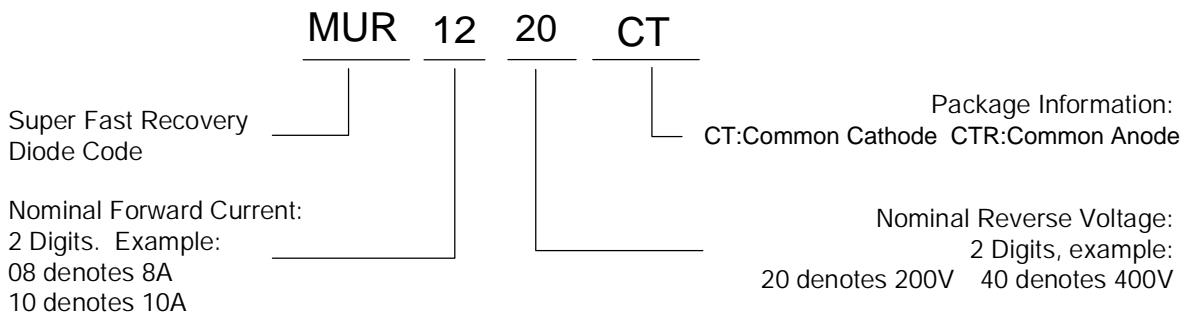
#### TYPICAL CHARACTERISTICS





### Super Fast Recovery Power Rectifier

#### NOMENCLATURE



#### ORDERING SPECIFICATIONS

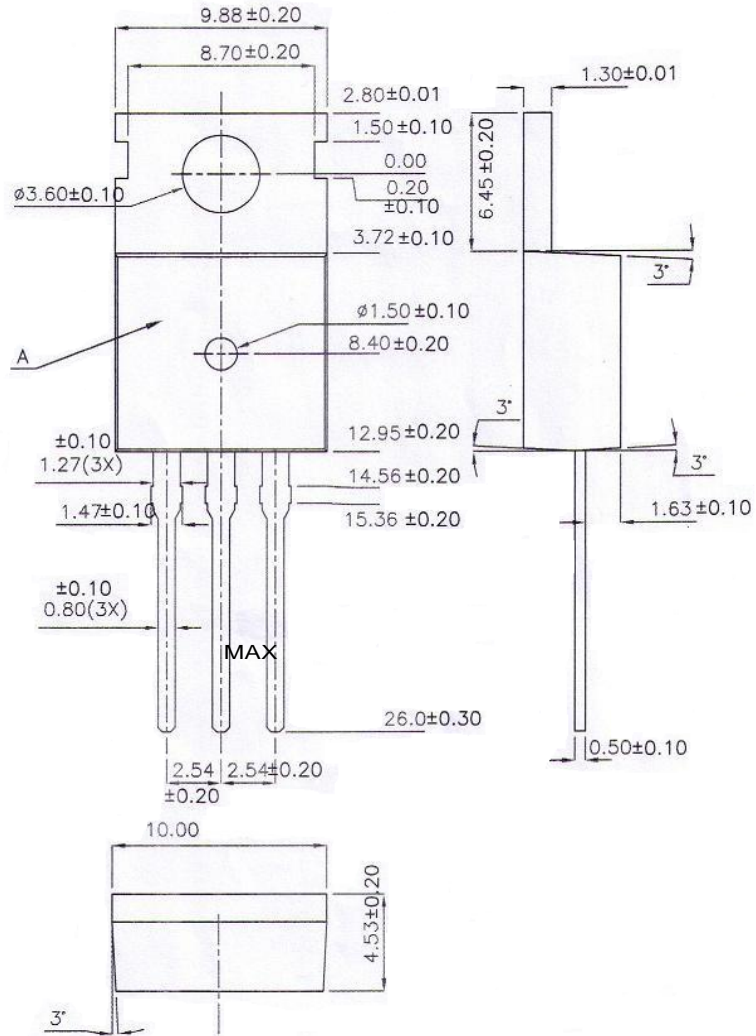
Part No.	Package	Marking	Shipping
MUR1220CTR	TO220AB	MUR1220CTR	50Unit/Tube

#### THERMAL CHARACTERISTICS (Per Leg)

Parameter	Symbol	MUR1220CT	Unit
Thermal Resistance, Junction-to-Case	R <sub>θJC</sub>	3.0	°C/W



Super Fast Recovery Power Rectifier



Dimensions in millimeters

TO-220AB