

### MUR1610CT THRU MUR1660CT

Ultra-Fast Recovery Rectifier Diodes

#### **Features**

- Super-fast recovery time for high efficiency
- Glass passivated chip junction
- Low leakage current
- High forward surge capability

#### **Typical Application**

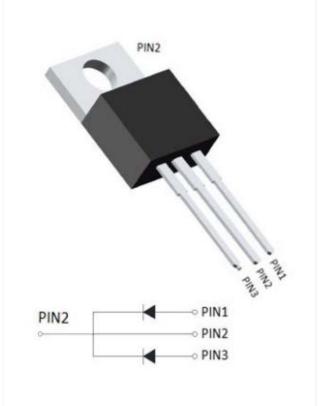
For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer ,computer and telecommunication.

#### **Mechanical Data**

Package: TO-220AB
 Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Polarity: Color Band denotes cathode end



■ Maximum Ratings (Ta=25°C Unless otherwise specified)

DADAMETED	Symbol	Unit	Conditions	MUR-CT					
PARAMETER			Conditions	1610	1615	1620	1640	1660	
Repetitive Peak Reverse Voltage	VRRM	V		100	150	200	400	600	
Average Forward Current	lo	Α	60HZ sine wave, R- load, Ta=25℃	16				1	
Surge(Nonrepetitive)Forward Current	IFSM	А	60HZ sine wave, 1 cycle,	100					
Current Squared Time	I <sup>2</sup> t	A <sup>2</sup> s	1ms≤t<8.3ms Tj=25°C,Rating of per diode	41					
Storage Temperature	Tstg	$^{\circ}$		-55 ~ +150					
Junction Temperature	Tj	°C		-55 ~ <b>+</b> 150					

### Electrical Characteristics (Ta=25℃ Unless otherwise specified) 电特性

PARAMETER	Cumbal	Unit	Conditions		MUR-CT				
PARAMETER	Symbol				1610	1615	1620	1640	1660
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =	8.0A 0.95			1.30	1.7	
Peak Reverse Current	IRRM1	μΑ	VRM=VRRM	Ta=25℃			10		
Peak Reverse Current	IRRM2			Ta=125℃	500				
Maximum reverse recovery time	Trr	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>rr</sub> =0.25A		35		50		
Thermal Resistance	<b>R</b> өJ-с	<b>R</b> өJ-с	Between junction and case		2.0				

Revised: 2021-11-29

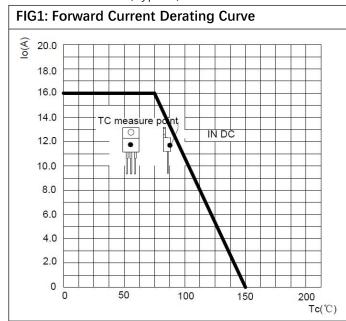






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#### ■ Characteristics (Typical)



# FIG2:Surge Forward Current Capability 120

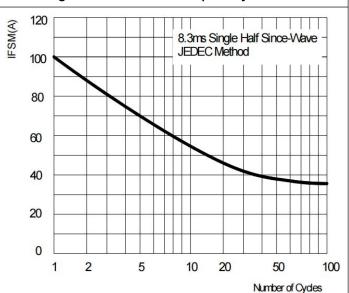
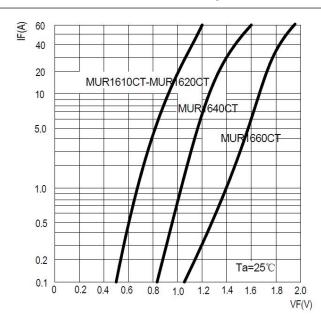


FIG3:Instantaneous Forward Voltage



**FIG4:Typical Reverse Characteristics** 

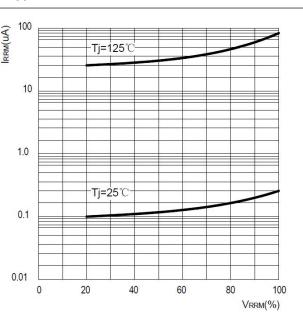
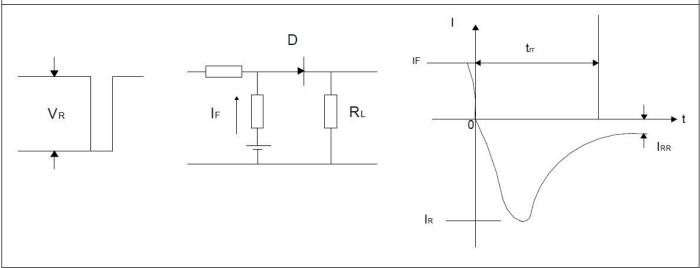


FIG5:Diagram of circuit and Testing wave form of reverse recovery time



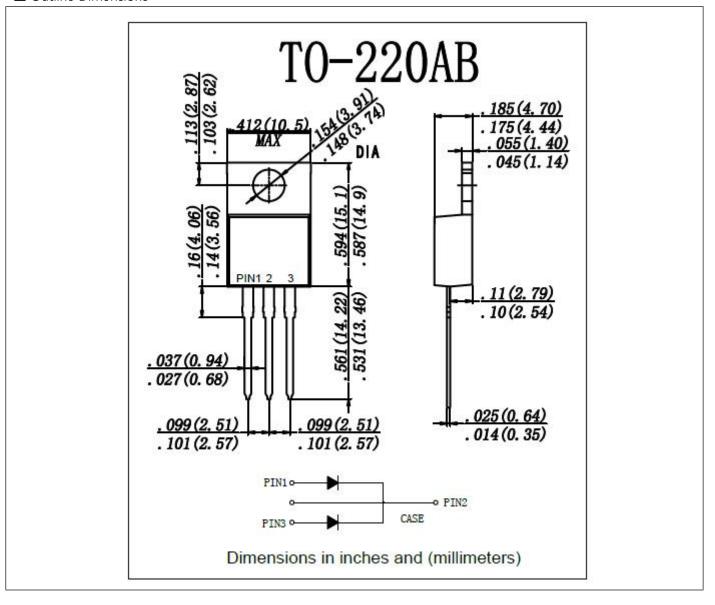


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#### ■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MUR1610CT~MUR1660CT	TO-220AB	50	1000	5000	Tube	

#### ■ Outline Dimensions



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