

MUR1010CT THRU MUR1060CT

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

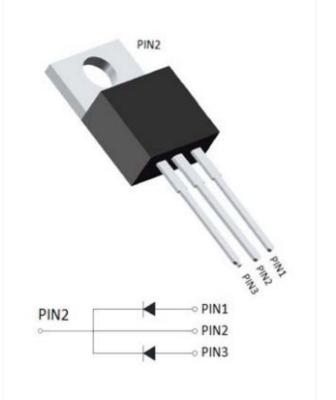
For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer ,computer and telecommunication.

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)

PARAMETER	Symbol	Unit	Conditions	MUR-CT					
PARAMETER			Conditions	1010	1015	1020	1040	1060	
Repetitive Peak Reverse Voltage	VRRM	V		100	150	200	400	600	
Average Forward Current	lo	Α	Half-sine wave, Resistance load, Ta(Fig 1)	10					
Surge(Nonrepetitive)Forward Current	IFSM	А	60HZ sine wave, 1 cycle, Ta=25°C	55					
Current Squared Time	l² t	A²s	1ms≤t<8.3ms Tj=25°C,Rating of per diode	12					
Storage Temperature	Tstg	$^{\circ}$ C		-55 ~ + 150					
Junction Temperature	Tj	$^{\circ}$		-55 ~ +175					

Electrical Characteristics (Ta=25°C Unless otherwise specified)

DADAMETED	Cumb al	Unit	Conditions		MUR-CT				
PARAMETER	Symbol				1010	1015	1020	1040	1060
Peak Forward Voltage	VFM	V	I _{FM} =	5.0A	0.975			1.30	1.7
Peak Reverse Current	IRRM1	μΑ	Vrm=Vrrm	Ta=25℃			10		
Peak Reverse Current	IRRM2		V KM-V KKM	Ta=125℃			500		
Maximum reverse recovery time	Trr	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		35			50	
Thermal Resistance	R өJ-C	R өJ-с	Between junction and case		2.0				

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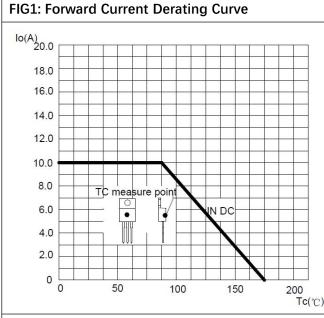






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■ Characteristics (Typical)



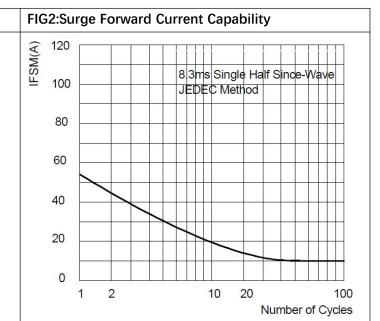


FIG3:Instantaneous Forward Voltage

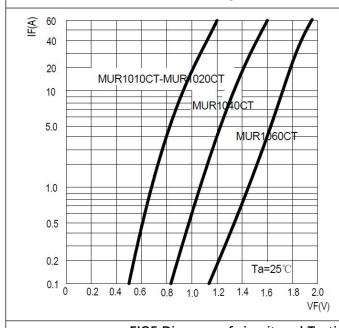


FIG4:Typical Reverse Characteristics

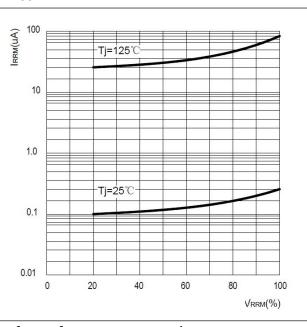
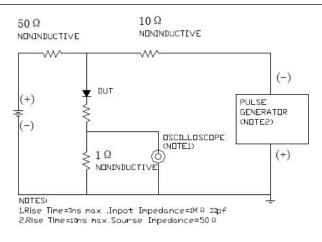
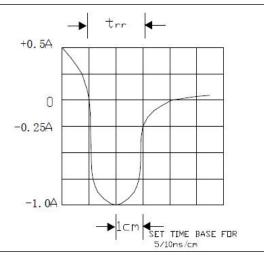


FIG5:Diagram of circuit and Testing wave form of reverse recovery time

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361° Circuit ProtectionSystem

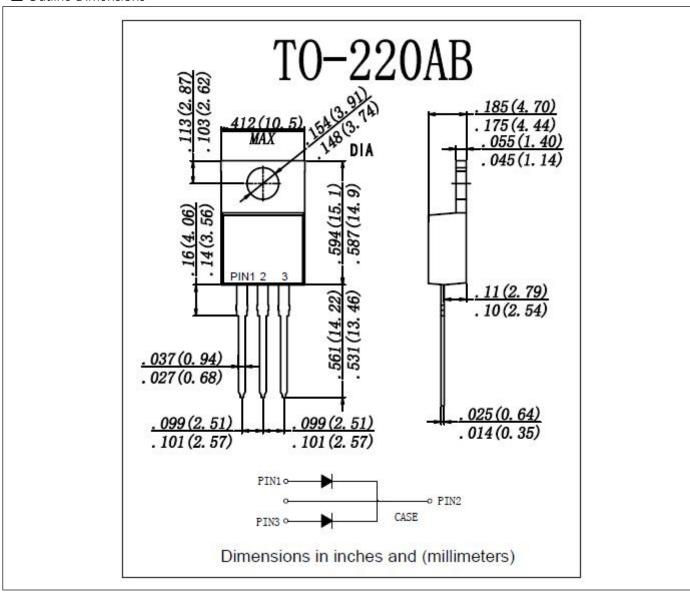


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MUR1010CT~MUR1060CT	TO-220AB	50	1000	5000	Tube	

■ Outline Dimensions



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