

MUR1010CT THRU MUR1060CT

Ultra-Fast Recovery Rectifier Diodes

Features

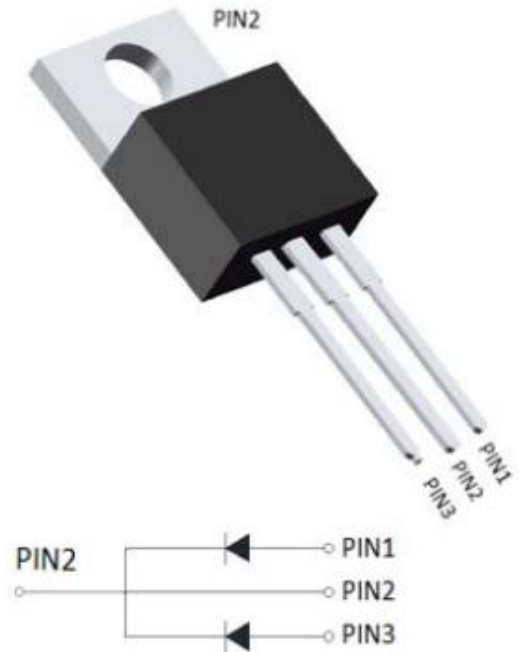
- Super-fast recovery time for high efficiency
- Glass passivated chip junction
- Low leakage current
- High forward surge capability

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				
				1010	1015	1020	1040	1060
Repetitive Peak Reverse Voltage	V _{RRM}	V		100	150	200	400	600
Average Forward Current	I _o	A	Half-sine wave, Resistance load, Ta(Fig 1)	10				
Surge(Nonrepetitive)Forward Current	I _{FSM}	A	60HZ sine wave, 1 cycle, Ta=25°C	55				
Current Squared Time	I ² t	A ² s	1ms≤t<8.3ms Tj=25°C,Rating of per diode	12				
Storage Temperature	T _{stg}	°C		-55 ~ +150				
Junction Temperature	T _j	°C		-55 ~ +175				

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

PARAMETER	Symbol	Unit	Conditions	MUR-CT				
				1010	1015	1020	1040	1060
Peak Forward Voltage	V _{FM}	V	I _{FM} =5.0A	0.975			1.30	1.7
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	Ta=25°C				
	I _{RRM2}			Ta=125°C				
Maximum reverse recovery time	T _{rr}	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A	35			50	
Thermal Resistance	R _{θJ-C}	R _{θJ-C}	Between junction and case	2.0				



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■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

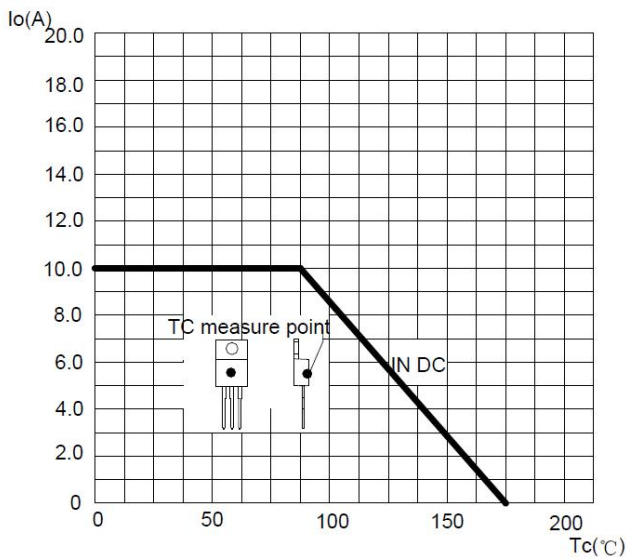


FIG2: Surge Forward Current Capability

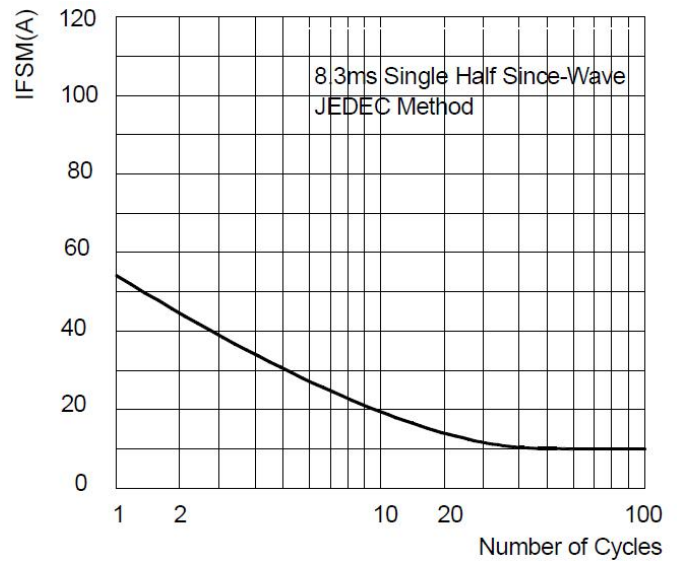


FIG3: Instantaneous Forward Voltage

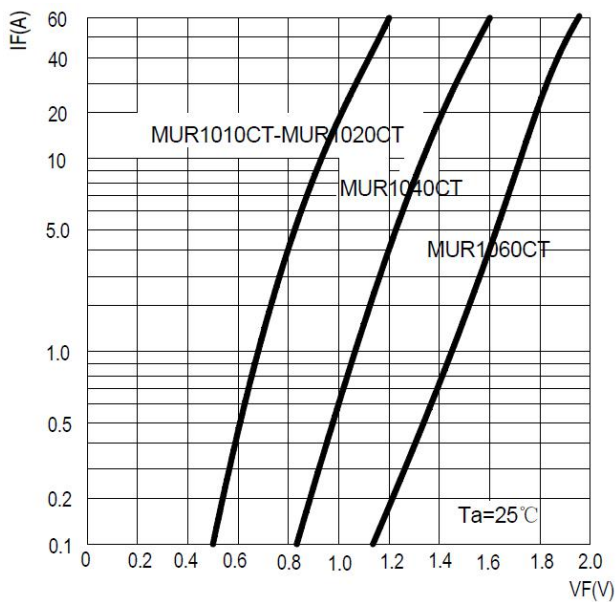


FIG4: Typical Reverse Characteristics

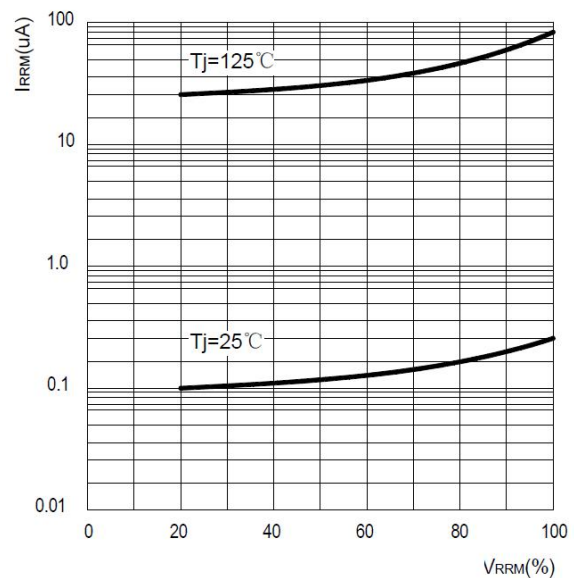
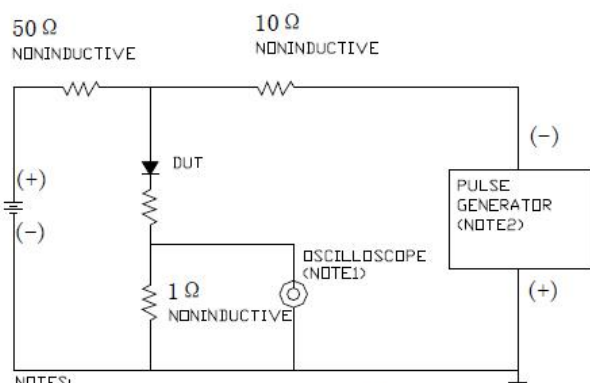
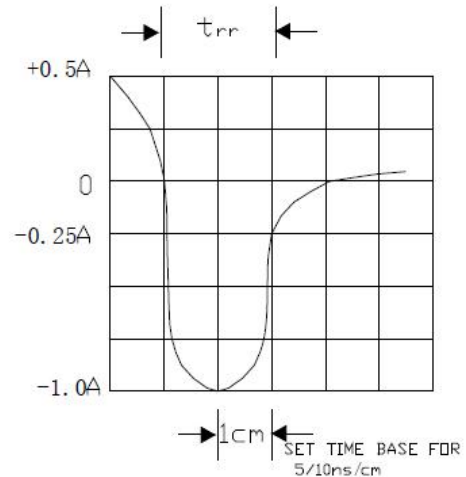


FIG5: Diagram of circuit and Testing wave form of reverse recovery time



NOTES:
 1. Rise Time=7ns max. Input Impedance=1MΩ 20pf
 2. Rise Time=10ns max. Source Impedance=50Ω

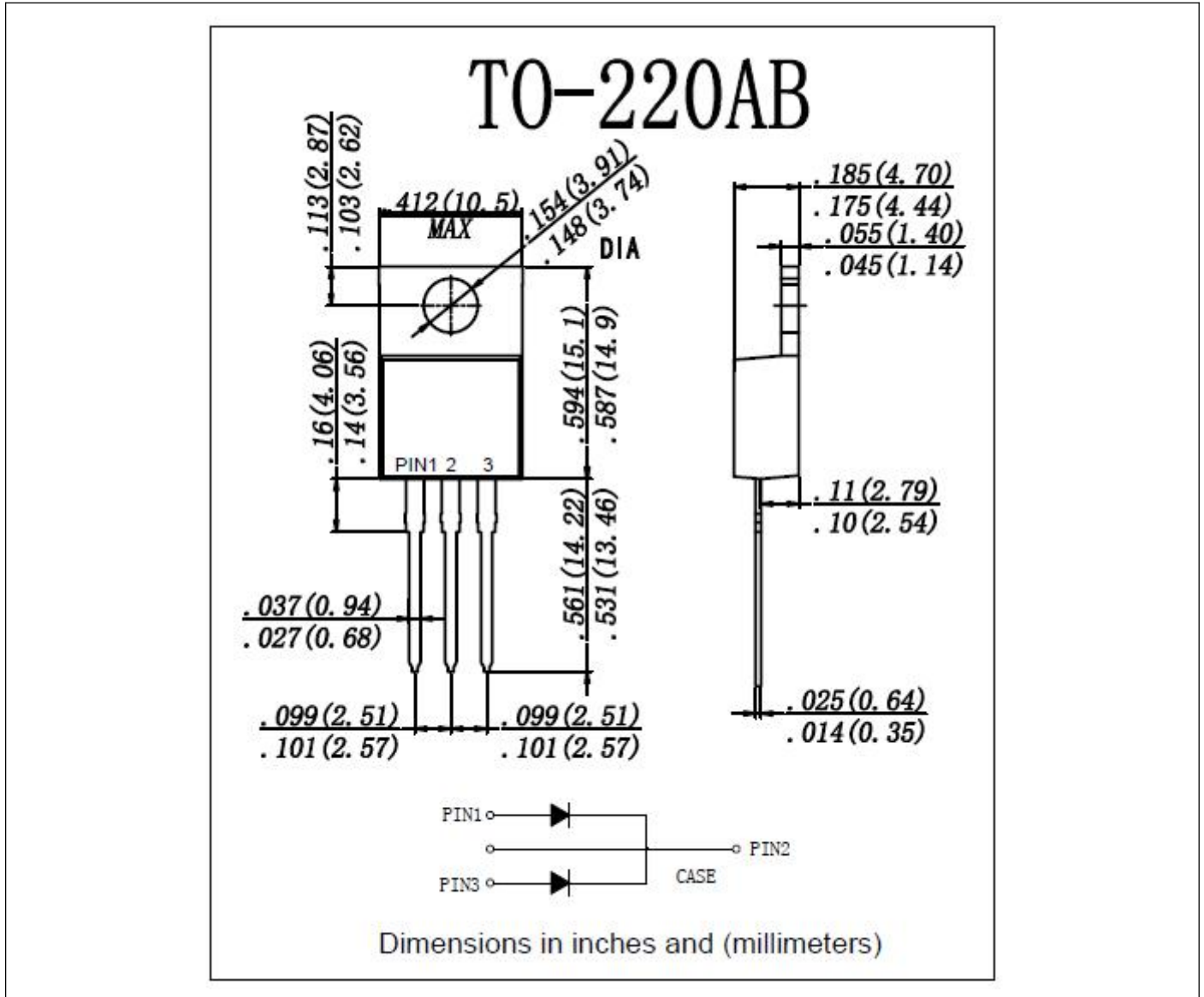


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■ Ordering Information (Example)

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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