

# MUR1010CT THRU MUR1060CT

## Ultra-Fast Recovery Rectifier Diodes

### Features

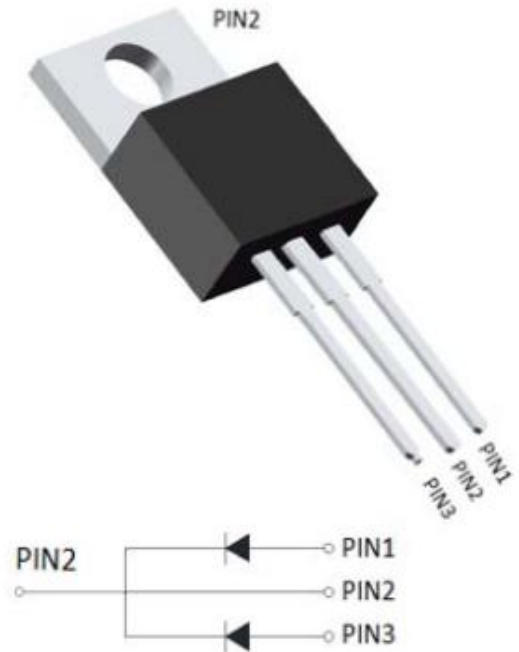
- Super-fast recovery time for high efficiency
- Glass passivated chip junction
- Low leakage current
- High forward surge capability

### 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 <sup>2</sup> 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)

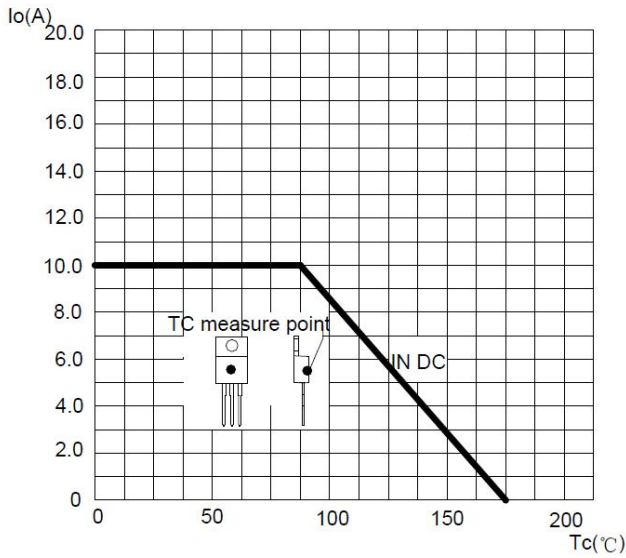
PARAMETER	Symbol	Unit	Conditions	MUR-CT				
				1010	1015	1020	1040	1060
Peak Forward Voltage	VFM	V	$I_{FM}=5.0A$	0.975			1.30	1.7
Peak Reverse Current	$I_{RRM1}$	μA	$V_{RM}=V_{RRM}$	Ta=25°C				
	$I_{RRM2}$			Ta=125°C				
Maximum reverse recovery time	$T_{rr}$	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	35			50	
Thermal Resistance	$R_{\theta J-C}$	$R_{\theta J-C}$	Between junction and case	2.0				



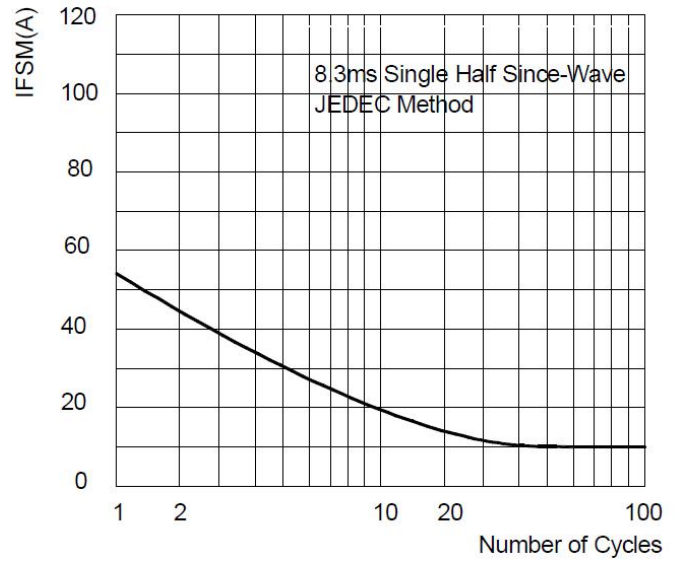
## MUR1010CT THRU MUR1060CT

### ■ Characteristics (Typical)

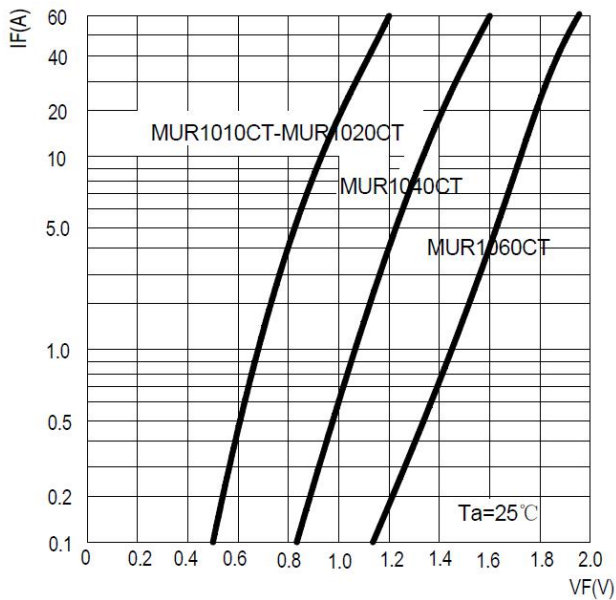
**FIG1: Forward Current Derating Curve**



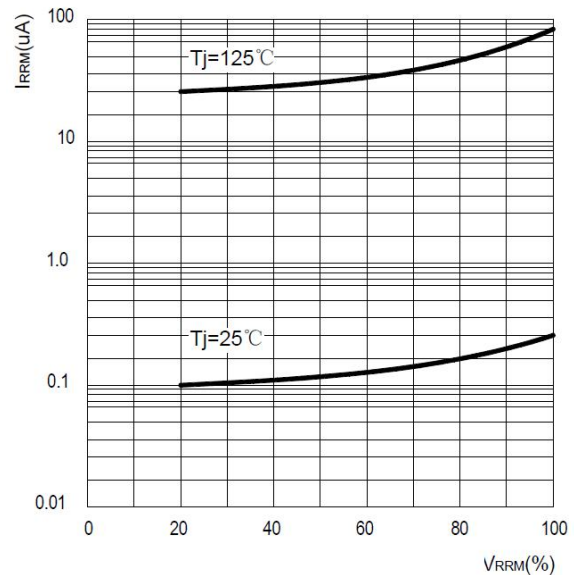
**FIG2: Surge Forward Current Capability**



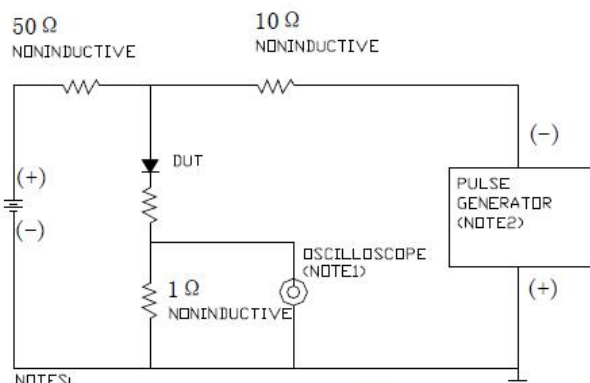
**FIG3: Instantaneous Forward Voltage**



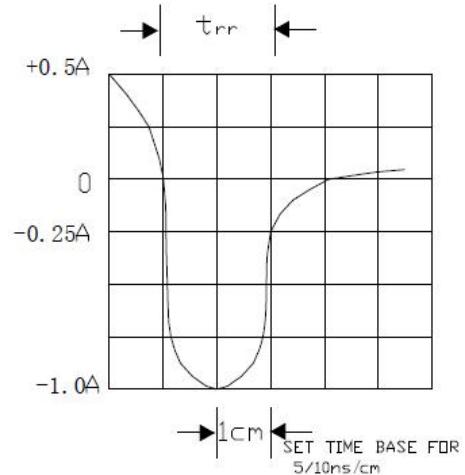
**FIG4: Typical Reverse Characteristics**



**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

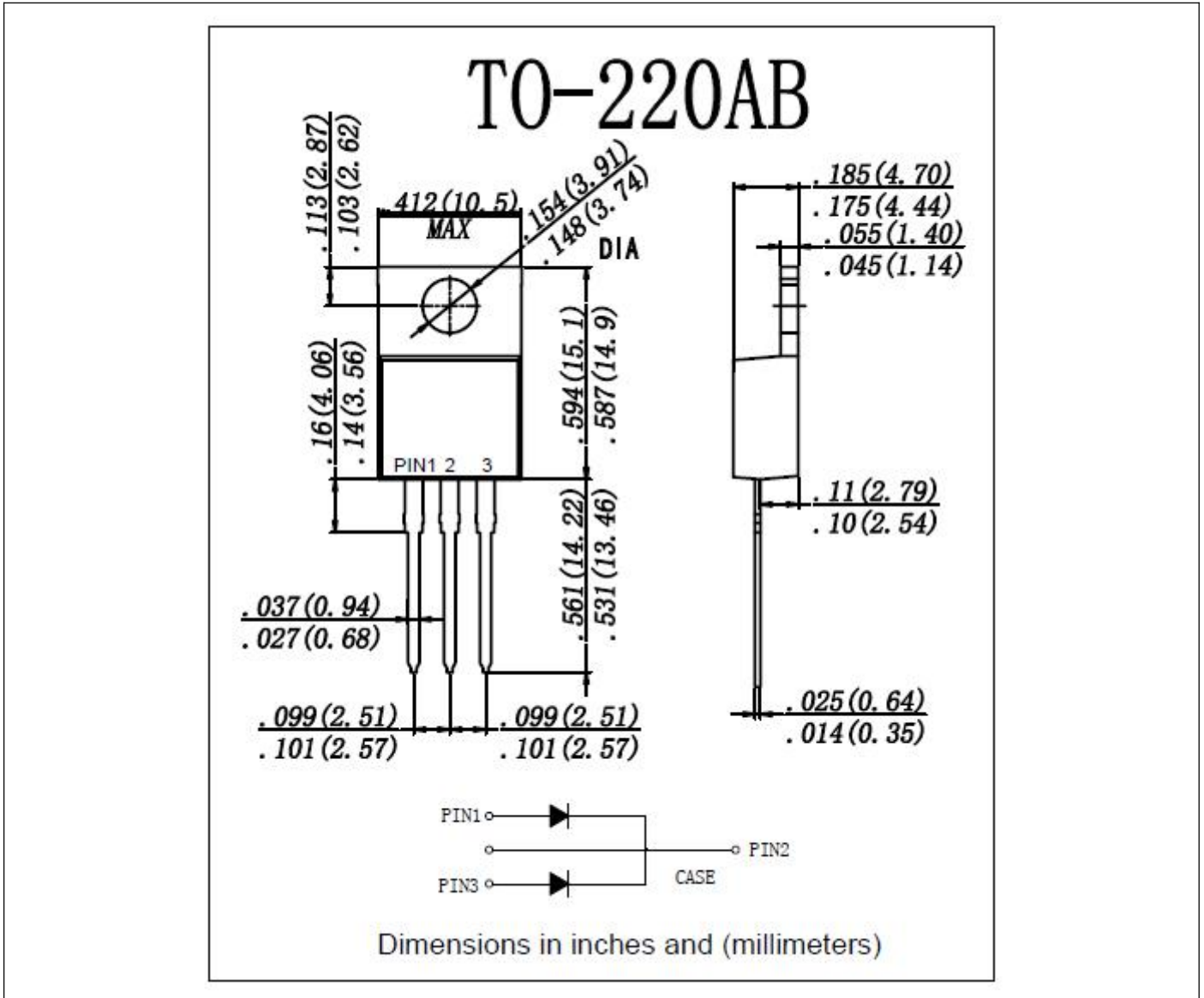


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■ Ordering Information (Example)

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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