

# Super Fast Rectifier

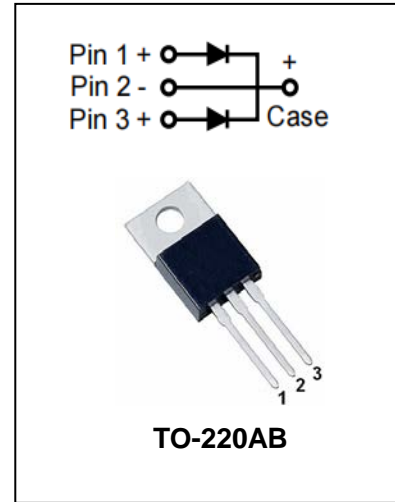
# MUR3030CT -MUR3060CT

## FEATURES

- Low Cost.
- Low Leakage.
- Low Forward Voltage Drop.
- High Current Capability.
- Easily Cleaned With Alcohol, Isopropanol and Similar Solvents.
- The Plastic Material Carries U/L Recognition 94V-0.



Lead-free



## Ordering Information

Part Number	Package	Shipping	Marking Code
MUR3030CT□	TO-220AB	50/Tube	MUR3030CT
MUR3040CT□	TO-220AB	50/Tube	MUR3040CT
MUR3060CT□	TO-220AB	50/Tube	MUR3060CT

□: none is for Lead Free package;

“G” is for Halogen Free package

## MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR3030CT	MUR3040CT	MUR3060CT	UNIT
$V_{RRM}$	Recurrnt Peak Reverse Voltage	300	400	600	V
$V_{RMS}$	RMS Voltage	210	280	420	V
$V_{DC}$	DC Blocking Voltage	300	400	600	V
$I_{F(AV)}$	Average Forward Rectified Current @ $T_A=100^{\circ}C$	30			A
$I_{FSM}$	Peak Forward Surge Current 8.3ms Single Half-Sine-wave Superimosed on Rated Load	300			A
$R_{thj-c}$	Thermal resistance junction to case	2.5			$^{\circ}C/W$
$T_j T_{stg}$	Operating Junction and Storage Tem-perature Range	-40 to +150			$^{\circ}C$

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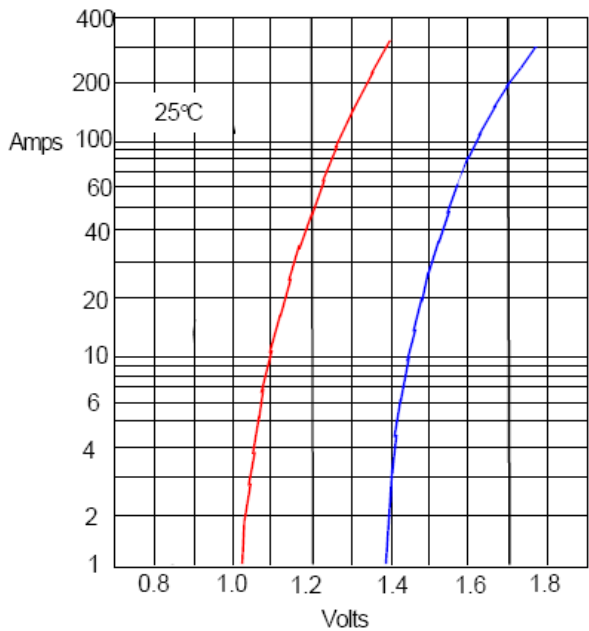
# MUR3030CT -MUR3060CT

## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MAX		UNIT
			MUR3030CT-MUR3040CT	MUR3060CT	
Reverse Current	$I_R$	$V_R=V_{RRM}, T_A=25^\circ\text{C}$ $V_R=V_{RRM}, T_A=125^\circ\text{C}$	10 500		$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=15\text{A}$	1.3	1.5	V
Reverse Recover Time	$t_{rr}$	$I_F=0.5\text{A}, I_R=1\text{A},$ $I_{rr}=0.25\text{A}$	50		ns

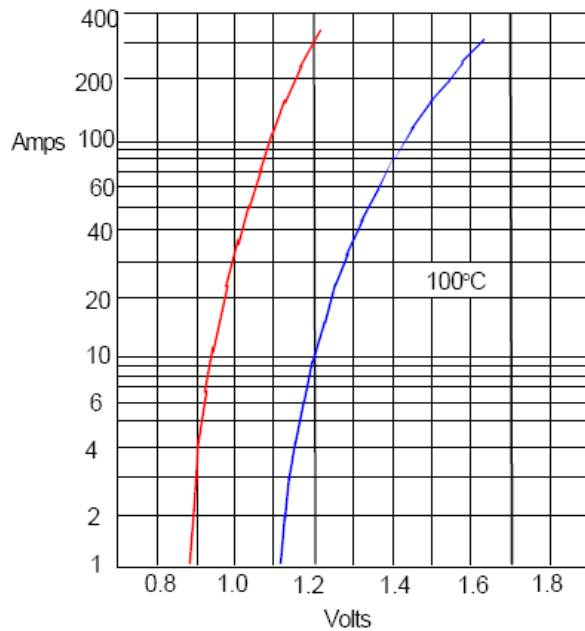
## TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Figure 1  
Typical Forward Characteristics @  $T_J = 25^\circ\text{C}$



Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Forward Characteristics @  $T_J = 100^\circ\text{C}$



Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

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## PACKAGE OUTLINE

Plastic surface mounted package

TO-220AB

