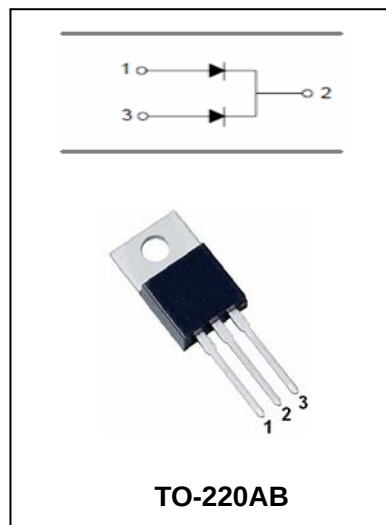


Super Fast Rectifier

MUR2020CT-MUR2060CT

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.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR 2020CT	MUR 2040CT	MUR 2060CT	Unit
V_{RRM}	Recurrnt Peak Reverse Voltage	200	400	600	V
V_{RMS}	RMS Voltage	140	280	420	V
V_{DC}	DC Blocking Voltage	200	400	600	V
$I_{F(AV)}$	Average Forward Rectified Current @ $T_A=100^{\circ}C$	20			A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-wave Superimosed on Rated Load	125			A
T_j T_{stg}	Operating Junction and Storage Tem-perature Range	-55 to +150			$^{\circ}C$

ELECTRICAL CHARACTERISTICS @ $T_a=25^{\circ}C$ unless otherwise specified

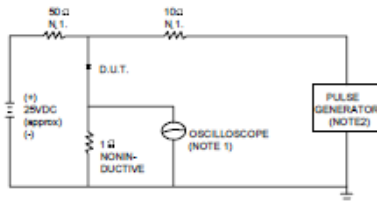
Parameter	Symbol	Test conditions	MAX			UNIT
			MUR 2020CT	MUR 2040CT	MUR 2060CT	
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25^{\circ}C$ $V_R=V_{RRM}, T_A=150^{\circ}C$	5.0 250	10 500		μA
Forward Voltage	V_F	$I_F=10A$	0.975	1.30	1.50	V
Reverse Recover Time	t_{rr}	$I_F=0.5A, I_R=1A,$ $I_{rr}=0.25A$	25	50		ns

Super Fast Rectifier

MUR2020CT-MUR2060CT

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. RISE TIME = 7ns MAX INPUT IMPEDANCE = $1\text{M}\Omega$, 22pF.
2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50Ω .

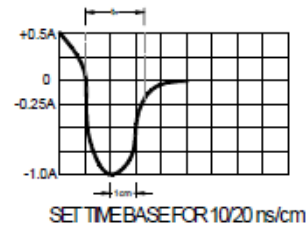


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

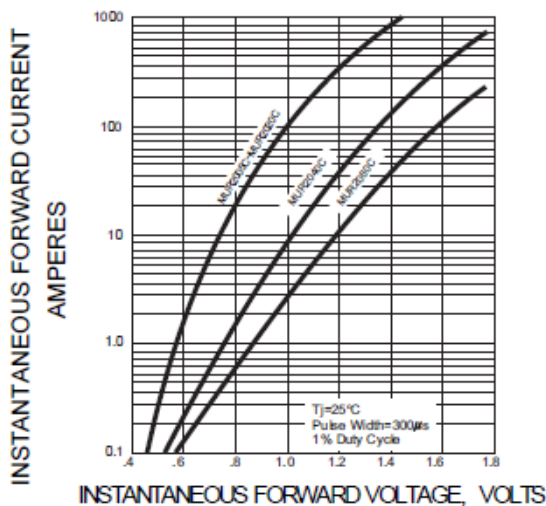


FIG.3 – PEAK FORWARD SURGE CURRENT

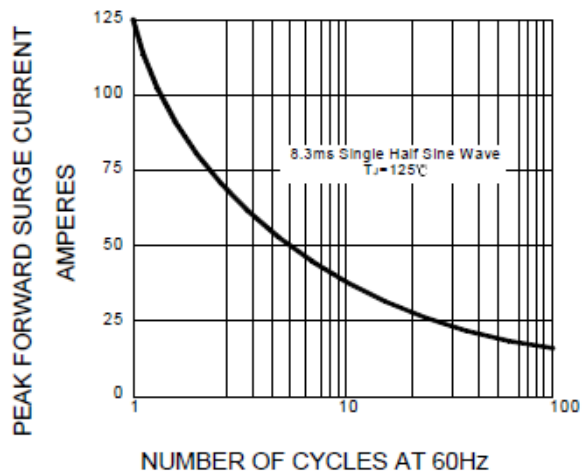
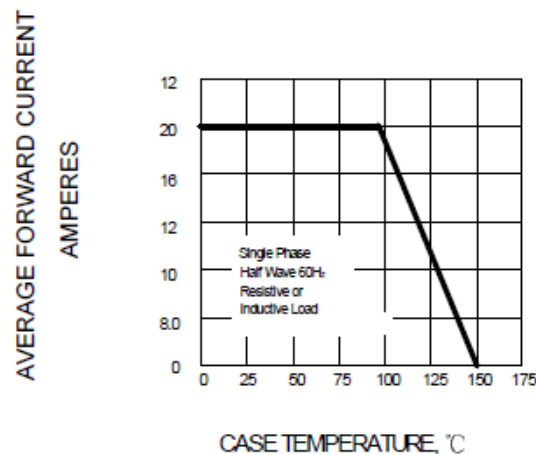


FIG.4 FORWARD DERATING CURVE





Super Fast Rectifier

MUR2020CT-MUR2060CT

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AB

