



# MUR1620CT THRU MUR1660CT

## SUPER FAST RECTIFIERS

Reverse Voltage - 200 to 600 Volts Forward Current - 16.0 Amperes

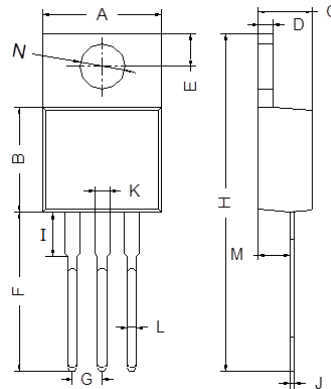
### FEATURES

- 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

### MECHANICAL DATA

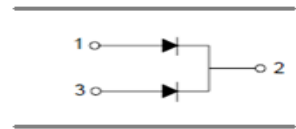
- Case: TO-220AB
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

### TO-220AB



TO-220AB		
Dim	Min	Max
A	9.80	10.30
B	8.30	8.90
C	4.37	4.77
D	1.10	1.45
E	2.62	2.87
F	13.46	14.22
G	2.41	2.67
H	28.40	29.16
I	3.55	4.05
J	0.35	0.58
K	1.20	1.32
L	0.68	0.94
M	2.40	2.60
N	3.71	3.91

All Dimensions in mm



### MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR1620 CT	MUR1630 CT	MUR1640 CT	MUR1660 CT	Unit
$V_{RRM}$	Rcurrent Peak Reverse Voltage	200	300	400	600	V
$V_{RMS}$	RMS Voltage	140	210	280	420	V
$V_{DC}$	DC Blocking Voltage	200	300	400	600	V
$I_{F(AV)}$	Average Forward Rectified Current @ $T_A=100^\circ C$	16.0				A
$I_{FSM}$	Peak Forward Surge Current 8.3ms Single Half-sine-wave superimposed on Rsted Load	100				A
$I_R$	Reverse Current $V_R=V_{RRM}, T_A=25^\circ C$ $V_R=V_{RRM}, T_A=150^\circ C$	5.0 250	10 500			$\mu A$
$V_F$	Forward Voltage $I_F=8A$	0.98	1.30	1.50		V
$t_{rr}$	Reverse Recovery Time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$	25	50			ns
$R_{\theta JC}$	Typical Thermal Resistance Junction to Case	2.0				$^\circ C/W$
$T_j, T_{stg}$	Operating Junction and Storage Temperature Range	-55 to +150				$^\circ C$

Note1: Pulse test:pulse width=300 $\mu s$ ,duty cycl $\leq$ 2.0%



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

FIG.1 –TYPICAL FORWARD CHARACTERISTIC

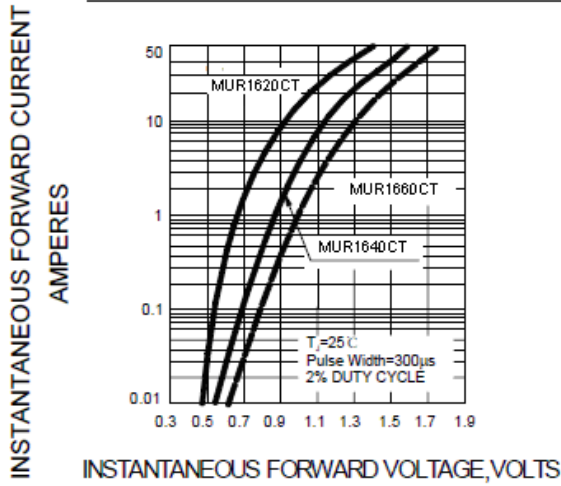


FIG.2 –TYPICAL REVERSE CHARACTERISTICS

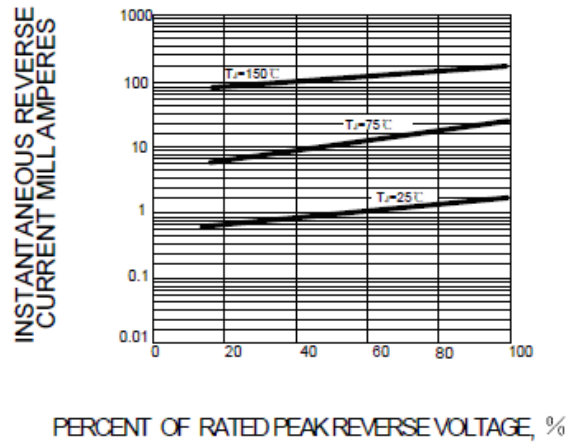


FIG.3 – PEAK FORWARD SURGE CURRENT

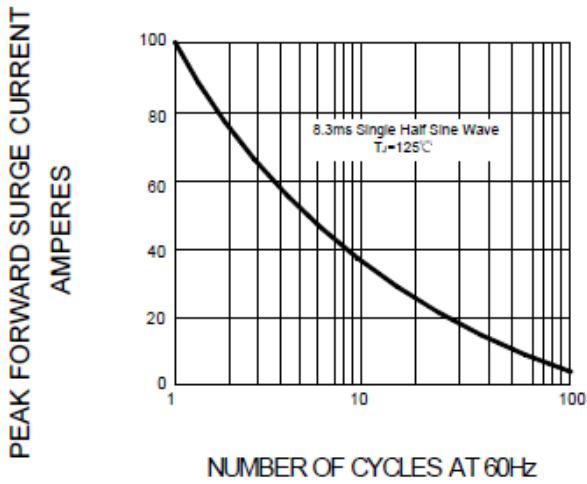


FIG.4 – FORWARD DERATING CURVE

