

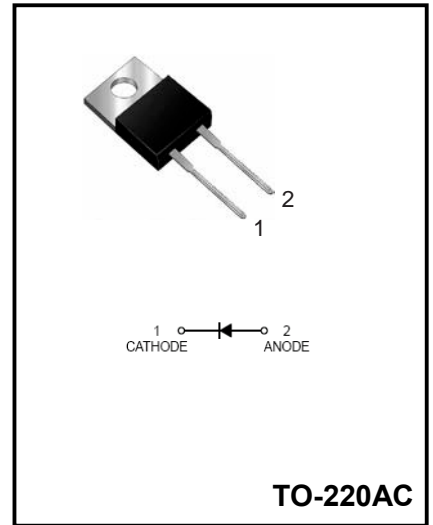
SUPER FAST RECTIFIERS

Reverse Voltage - 400-600 V

Forward Current - 30 A

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

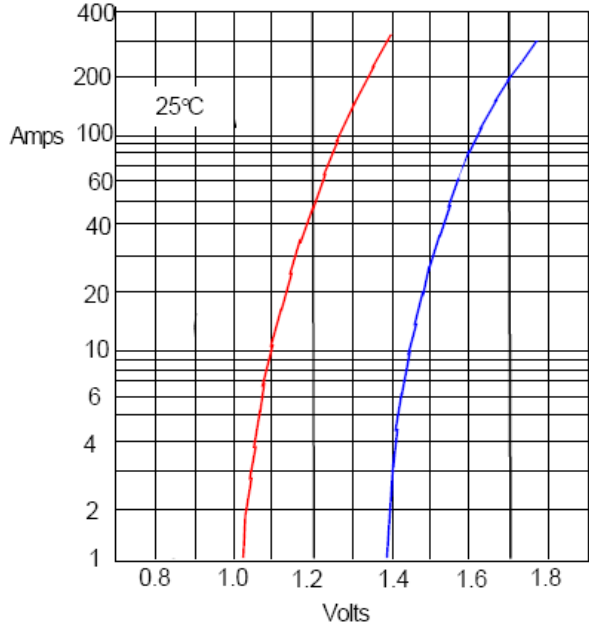
- ◆Case: TO-220AC
- ◆Molding Compound: UL Flammability Classification Rating 94V-0
- ◆Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

MAXIMUM RATING operating temperature range applies unless otherwise specified

Parameter	Symbol	MUR3040DA	MUR3060DA	Unit
Rcurrent Peak Reverse Voltage	V_{RRM}	400	600	V
RMS Voltage	V_{RMS}	280	420	V
DC Blocking Voltage	V_{DC}	400	600	V
Average Forward Rectified Current @ $T_A=100^{\circ}C$	$I_{F(AV)}$	30.0		A
Peak Forward Surge Current 8.3ms Single Half-sine-wave superimposed on Rsted Load	I_{FSM}	300		A
Reverse Current $V_R=V_{RRM}, T_A=25^{\circ}C$ $V_R=V_{RRM}, T_A=150^{\circ}C$	I_R	10 500		μA
Forward Voltage $I_F=30A$	V_F	1.35	1.7	V
Reverse Recovery Time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$	t_{rr}	50		ns
Operating Junction and Storage Temperature Range	$T_j T_{stg}$	-55 to +150		$^{\circ}C$

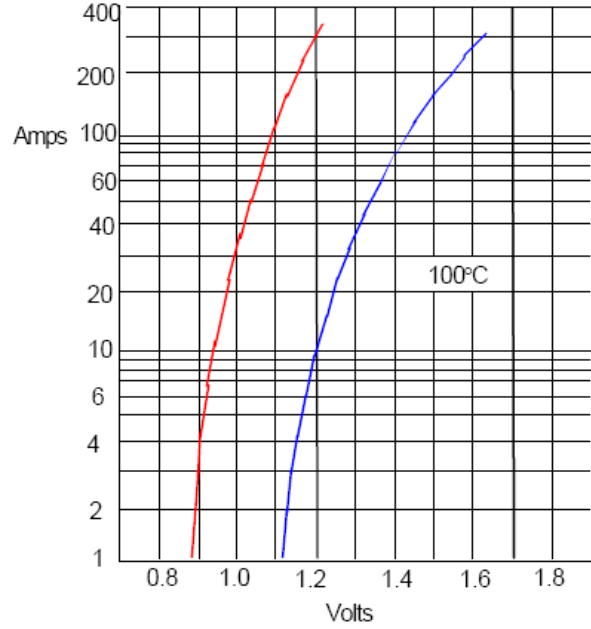
Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

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



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

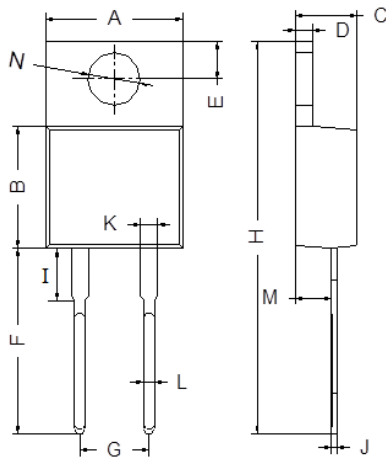
Figure 2
Typical Forward Characteristics @ $T_j = 100^{\circ}\text{C}$



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

Package Outline Dimensions Millimeters

TO-220AC



TO-220AC		
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	13.14	13.74
G	4.98	5.18
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		