

# MUR820 THRU MUR860

## SUPER FAST RECTIFIERS

Reverse Voltage - 200 to 600 Volts Forward Current - 8.0 Amperes

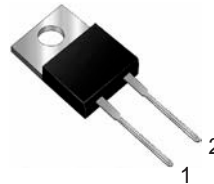
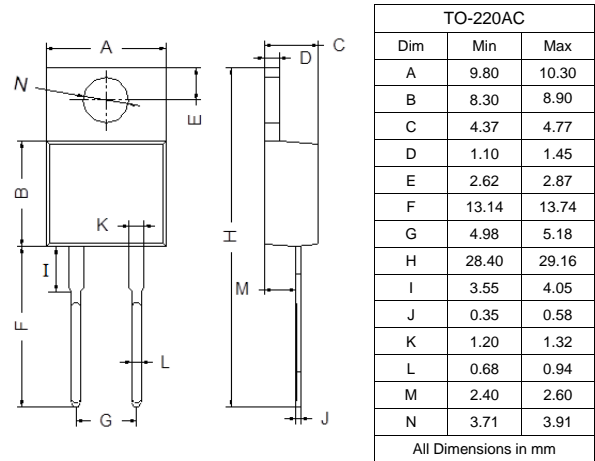
### FEATURES

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

### TO-220AC



1 CATHODE 2 ANODE

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

Symbol	Parameter	MUR820	MUR840	MUR860	Unit
$V_{RRM}$	Reverse Peak 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 @ $T_A=100^\circ C$	8.0			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			$^\circ C$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

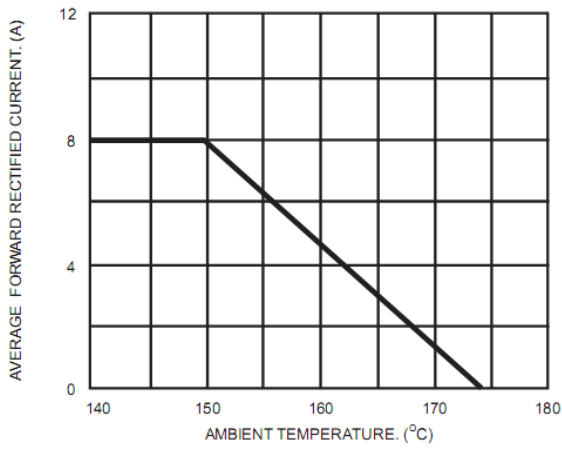


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

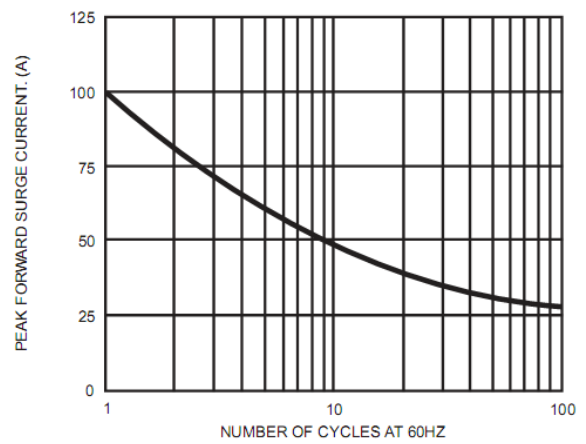


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

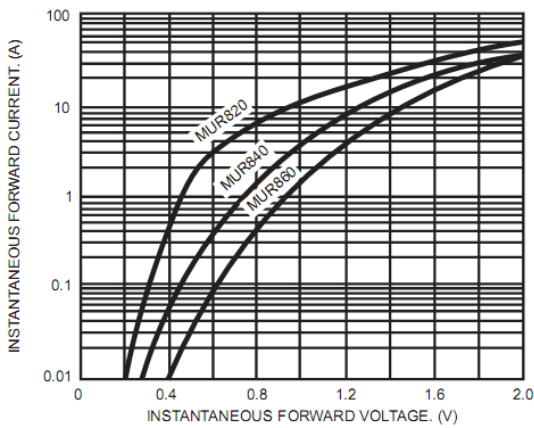


FIG.4- TYPICAL REVERSE CHARACTERISTICS

