

MUR520 THRU MUR560

SUPER FAST RECTIFIERS

Reverse Voltage - 200 to 600 Volts Forward Current - 5.0 Amperes

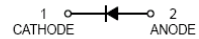
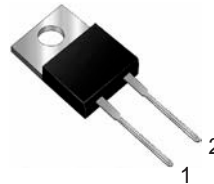
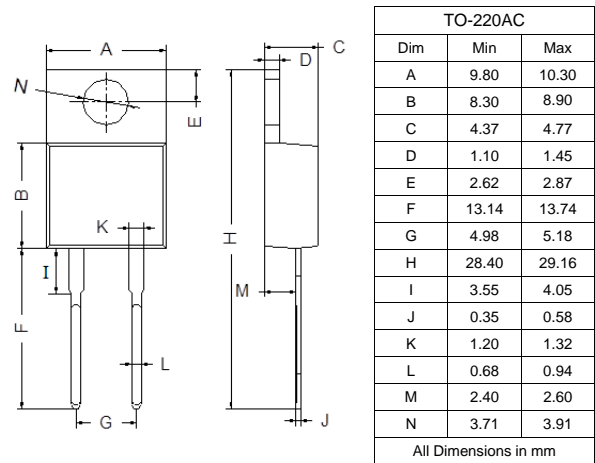
FEATURES

- 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

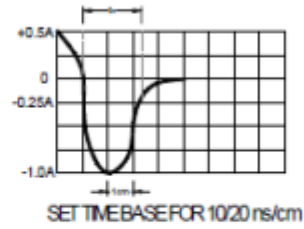
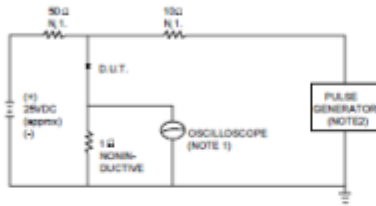


MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR520	MUR540	MUR560	Unit
V_{RRM}	Rcurrent 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 @ $T_A=100^\circ C$	5.0			A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-sine-wave superimposed on Rsted Load	60			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		μA
V_F	Forward Voltage $I_F=5A$	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
$T_j T_{stg}$	Operating Junction and Storage Temperature Range	-55 to +150			$^\circ C$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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



NOTES: 1. RISE TIME = 7ns MAX INPUT IMPEDANCE = 1MΩ, 22pF.
2. RISE TIME = 10ns MAX SOURCE IMPEDANCE = 50 Ω.

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

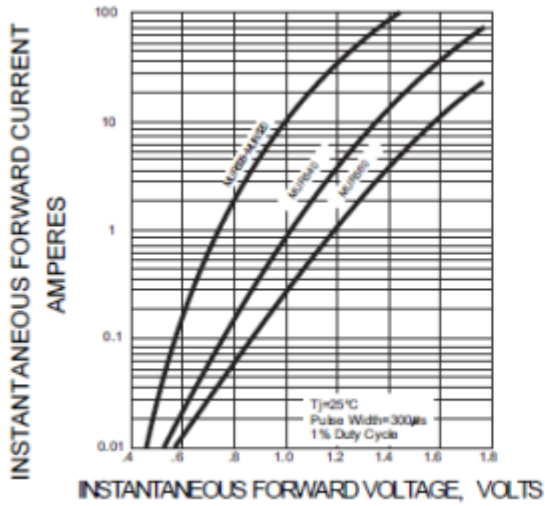


FIG.3 – PEAK FORWARD SURGE CURRENT

