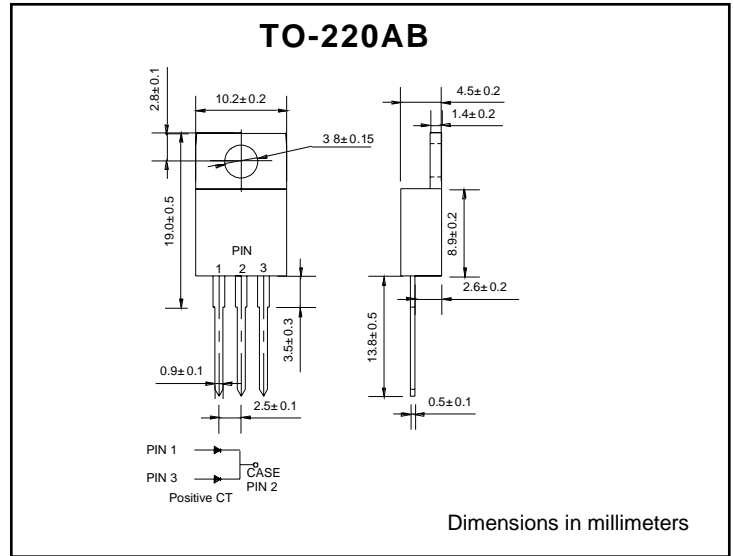


**FEATURES**

- ◇ 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: JEDEC TO-220AB, molded plastic
- ◇ Terminals: Solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.08ounce, 2.24 grams
- ◇ Mounting position: Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

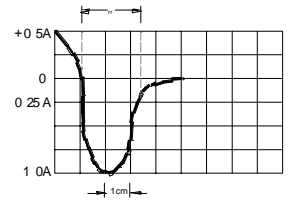
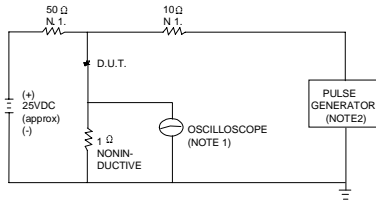
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		MUR 1005CT	MUR 1010CT	MUR 1015CT	MUR 1020CT	MUR 1040CT	MUR 1060CT	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	280	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	400	600	V
Average Rectified Output Current @60Hz sine wave, R-load, Tc(FIG.1)	$I_{F(AV)}$	10						A
Surge(Non-repetitive)Forward Current@60Hz half sine-wave, 1 cycle, Tj=25°C	$I_{FSM}$	150						A
Maximum instantaneous forward voltage @ 5A	$V_F$	1.0				1.3	1.7	V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =125°C	$I_R$	5.0				10.0		μ A
		250				500		
Maximum reverse recovery time (Note1)	$t_{rr}$	35				50		ns
Operating junction temperature range	$T_J$	- 55 ----- + 150						°C
Storage temperature range	$T_{STG}$	- 55 ----- + 150						°C

NOTE: 1. Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

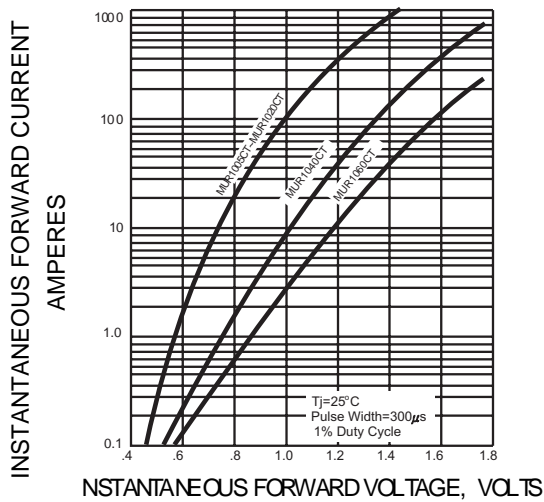
**FIG. 1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



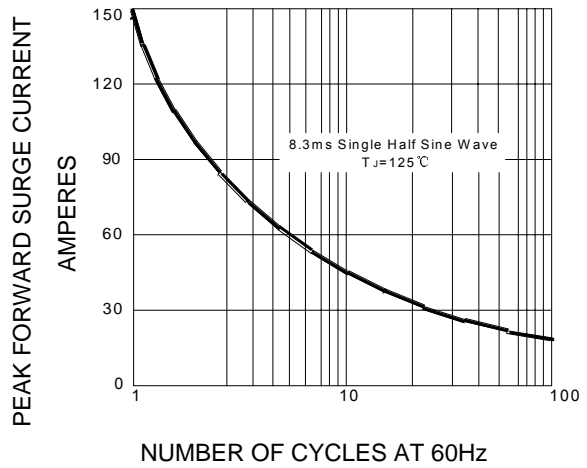
NOTES: 1. RISE TIME = 7ns MAX INPUT IMPEDANCE = 1MΩ, 22pF.  
 2. RISE TIME = 10ns MAX SOURCE IMPEDANCE = 50Ω

SET TIME BASE FOR 10/20 ns/cm

**FIG. 2 – TYPICAL FORWARD CHARACTERISTIC**



**FIG. 3 – PEAK FORWARD SURGE CURRENT**



**FIG. 4 – FORWARD DERATING CURVE**

