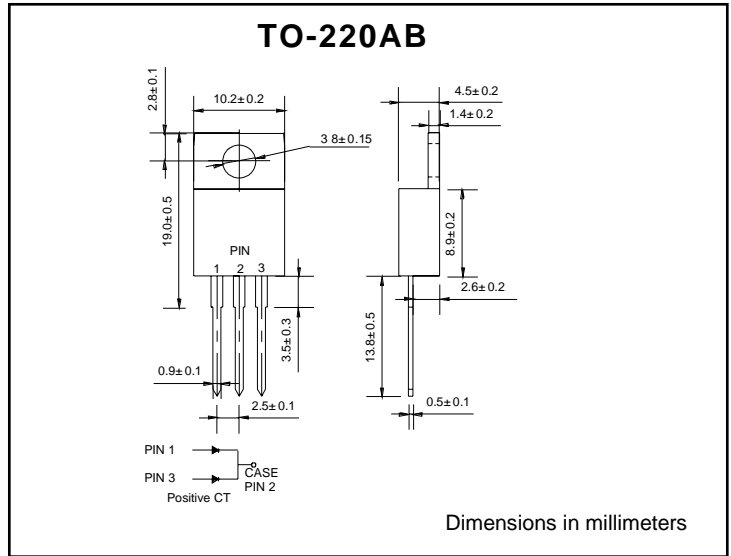


FEATURES

- ◇ 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: 0.08 ounce, 2.24 grams
- ◇ Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

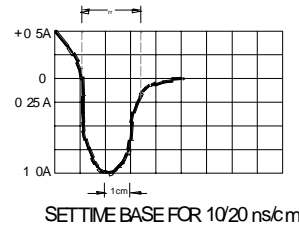
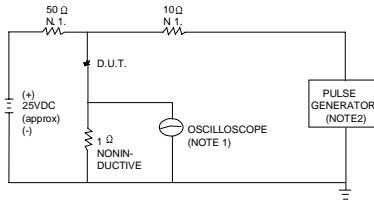
Ratings at 25°C ambient temperature unless otherwise specified.

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

		MUR 1605CT	MUR 1610CT	MUR 1615CT	MUR 1620CT	MUR 1640CT	MUR 1660CT	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)	$I_{F(AV)}$	16						A
Surge(Non-repetitive)Forward Current@60Hz half sine-wave, 1 cycle, Tj=25°C	I_{FSM}	150						A
Maximum instantaneous forward voltage @ 8A	V_F	1.0				1.3	1.7	V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =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

FIG. 2 – TYPICAL FORWARD CHARACTERISTIC

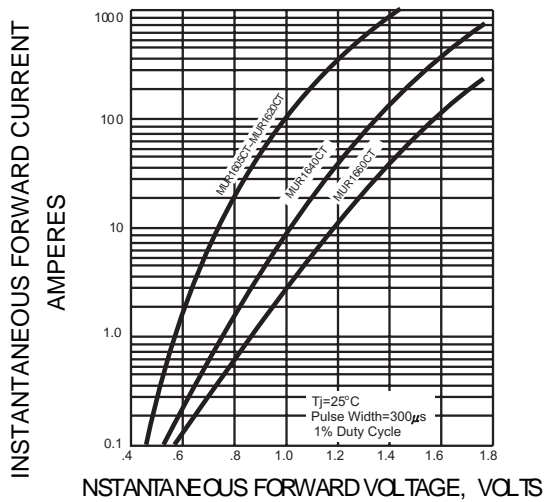


FIG. 3 – PEAK FORWARD SURGE CURRENT

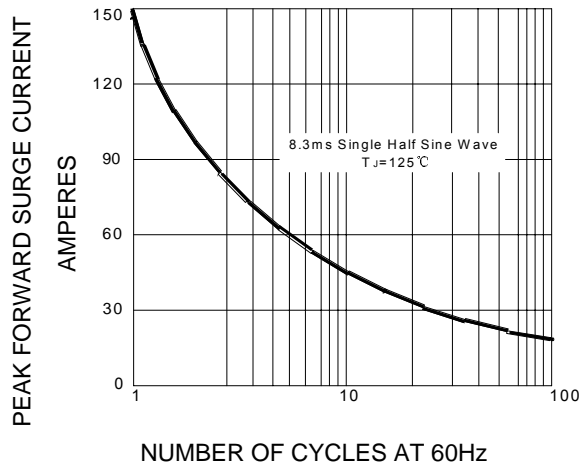


FIG. 4 – FORWARD DERATING CURVE

