

## SUPER FAST RECTIFIERS

VOLTAGE RANGE: 50 --- 600 V  
CURRENT: 20 A

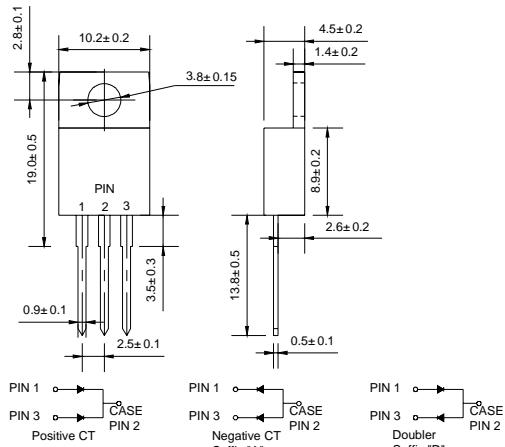
## FEATURES

- ◇ 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: JEDEC TO-220AB, molded plastic
- ◇ Terminals: Solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.071 ounce, 2.006 grams
- ◇ Mounting position: Any

## TO-220AB



Dimensions in millimeters

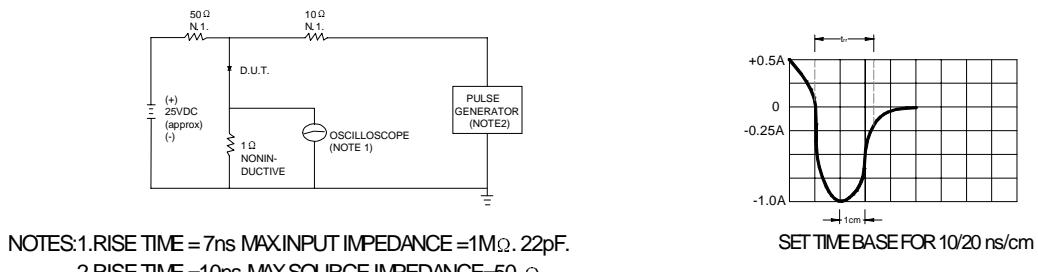
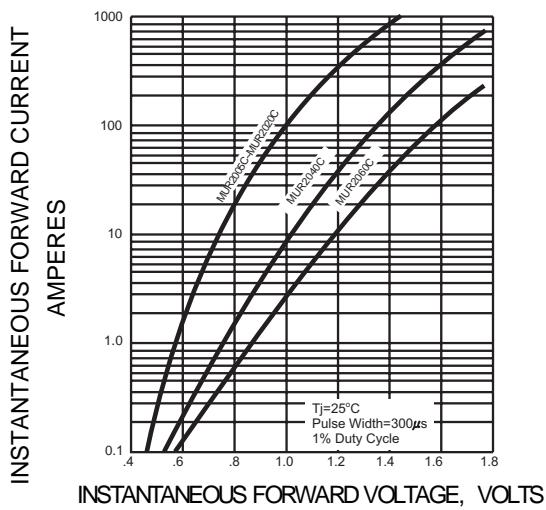
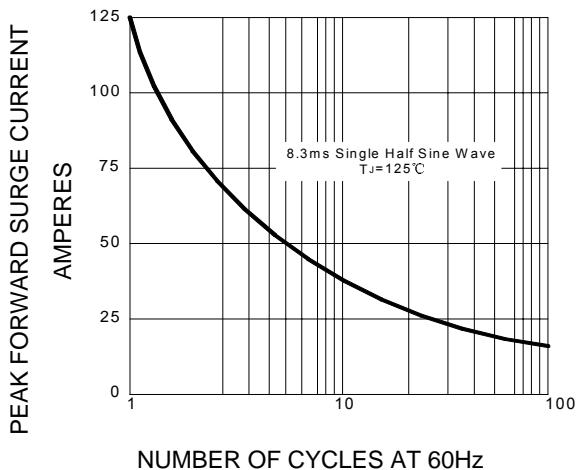
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 2005C	MUR 2010C	MUR 2015C	MUR 2020C	MUR 2040C	MUR 2060C	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				
Maximum average forward rectified current @ $T_c = 95^\circ C$	$I_{F(AV)}$	20						A				
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_j = 125^\circ C$	$I_{FSM}$	125						A				
Maximum instantaneous forward voltage @ 10A	$V_F$	0.975		1.3		1.5		V				
Maximum reverse current @ $T_A = 25^\circ C$ at rated DC blocking voltage @ $T_A = 150^\circ C$	$I_R$	5.0		10.0		500		$\mu A$				
Maximum reverse recovery time (Note1)	$t_{rr}$	25						ns				
Operating junction temperature range	$T_J$	- 55 ----- + 150						$^\circ C$				
Storage temperature range	$T_{STG}$	- 55 ----- + 150						$^\circ C$				

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****FIG.2 – TYPICAL FORWARD CHARACTERISTIC****FIG.3 – PEAK FORWARD SURGE CURRENT****FIG.4 – FORWARD DERATING CURVE**