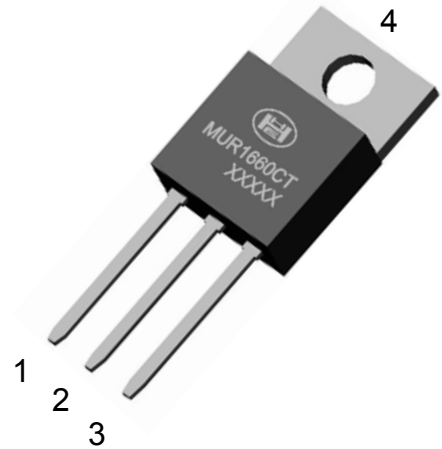


This series uses the Fast Recovery Dides principle with a platinum barrier metal. These state of the art devices have the following features:

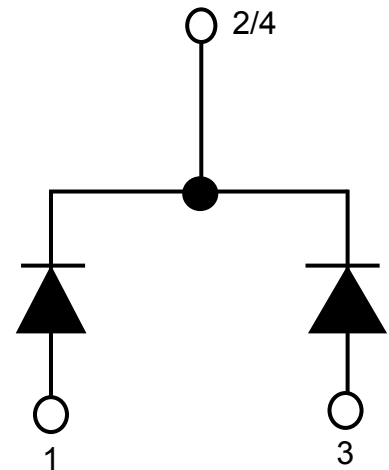
**Features**

- Fast Recovery Dides
- 16A Total (8A Per Diode Leg)
- Guard Ring for Stress Protection
- Low Forward Voltage
- 175°C Operating Junction Temperature
- Epoxy Meets UL 94 V 0 @ 0.125 in
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Pb Free Packages are Available\*



**Mechanical Characteristics:**

- Case: Epoxy, Molded
- Weight: 1.9 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds



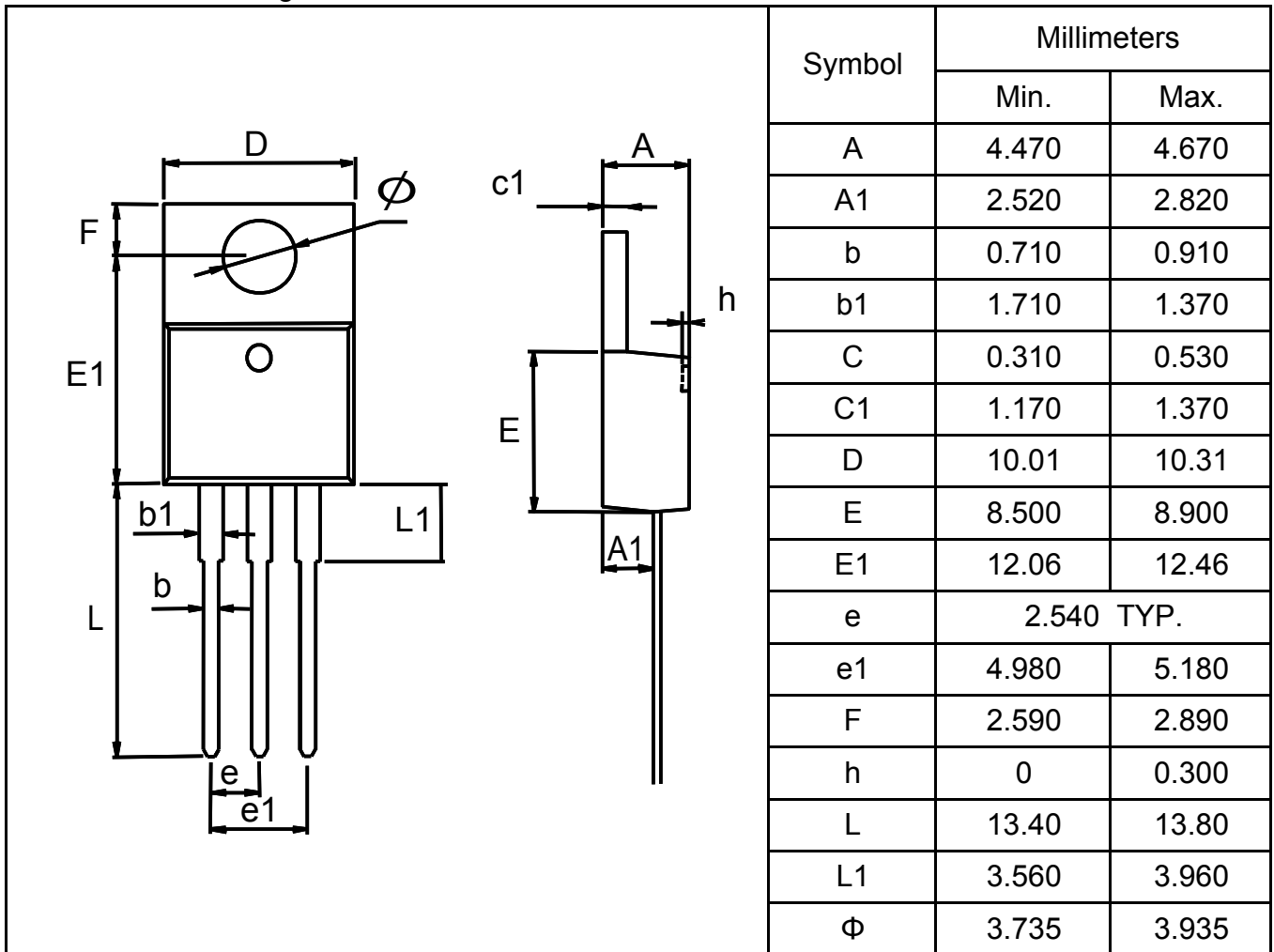
TO-220C or TO-220C-3L  
TO-220AB or CASE 221A

PACKAGING SPECIFICATIONS		
Tube	Box	Cartons
50 Pcs	1000 Pcs	5000 Pcs

■ MAXIMUM RATINGS (Per Diode Leg)

Rating	Symbol	MUR1660CT	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	600	V
Maximum Instantaneous Forward Voltage ( $I_F=8A, T_C=25^\circ C$ )	$V_F$	1.5	
Average Rectified Forward Current (Rated $V_R$ ) $T_C=133^\circ C$	$I_{F(AV)}$	8	A
Peak Repetitive Forward Current (Rated $V_R$ , Square Wave, 20kHz) $T_C=133^\circ C$	$F_{RM}$	16	
Nonrepetitive Peak Surge Current (Surge applied at rates load conditions halfwave, single phase, 60Hz)	$I_{FSM}$	150	
Peak Repetitive Reverse Surge Current (2.0 $\mu$ S, 1.0kHz)	$I_{RRM}$	5	
Operating Junction Temperature	$T_J$	-65 to +175	$^\circ C$
Voltage Rate of Change (Rated $V_R$ )	dv/dt	10000	V/ $\mu$ S
Maximum Instantaneous Reverse Current (Rated dc Voltage, $T_C=125^\circ C$ ) (Rated dc Voltage, $T_C=25^\circ C$ )	$I_R$	6.0 0.01	mA
Recovery TIME ( $I_F=1A, dI_F/dt=200A/\mu A$ )	$t_{rr}$	35	nS

■ TO-220C Package Dimensions in millimeters (mm)



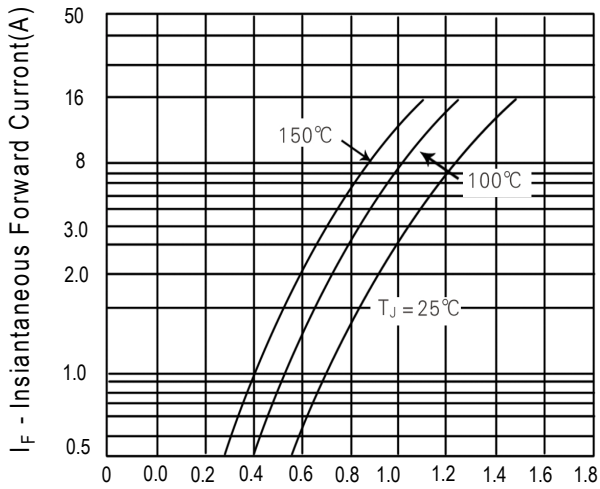


Figure 1. Typical Forward Voltage Per Diode

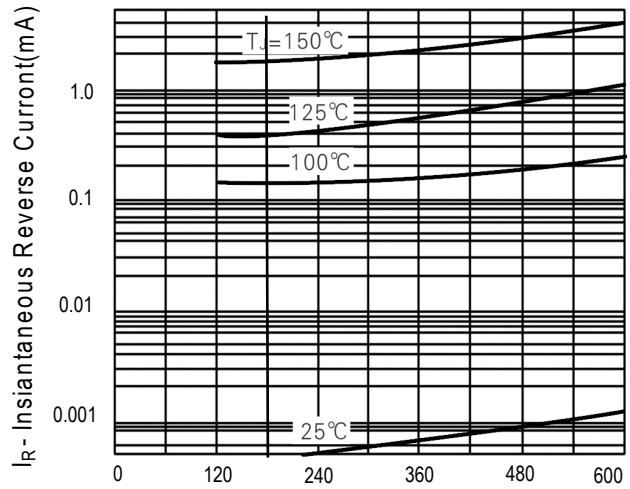


Figure 2. Typical Reverse Current Per Diode

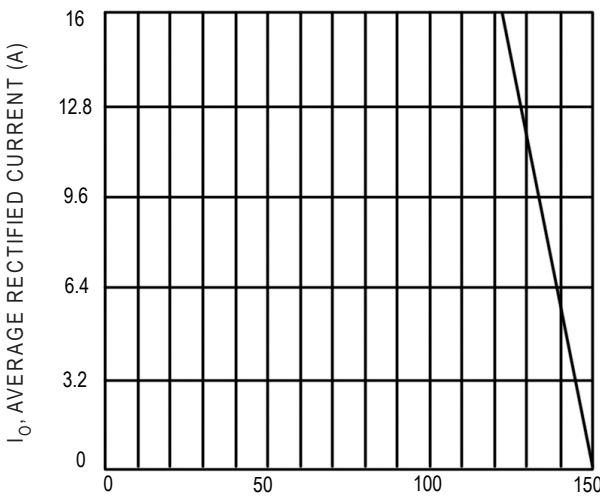


FIGURE.3 Forward Current Derating Curve

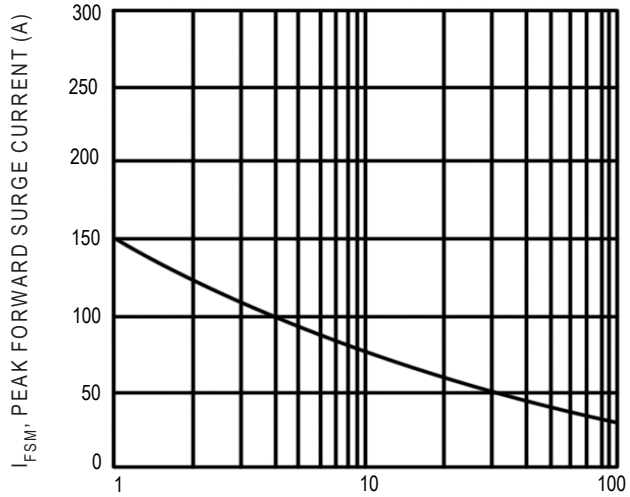


FIGURE.4 Max Non-Repetitive Surge Current

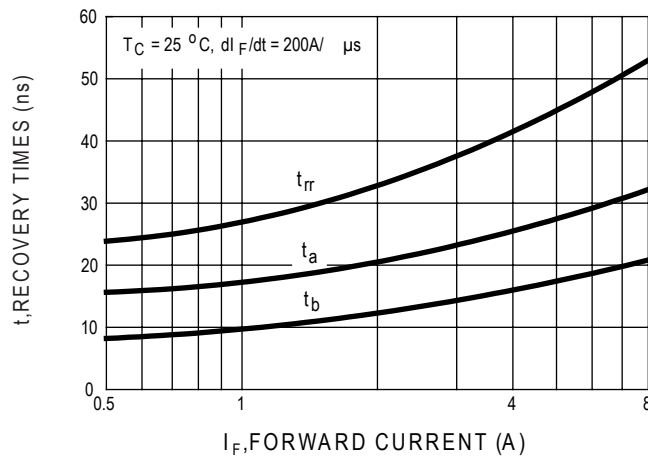
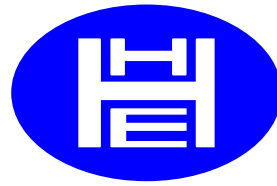


FIGURE.5  $t_{rr}$ ,  $t_a$  AND  $t_b$  CURVES vs FORWARD CURRENT



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