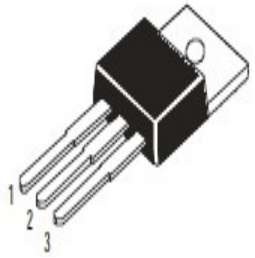
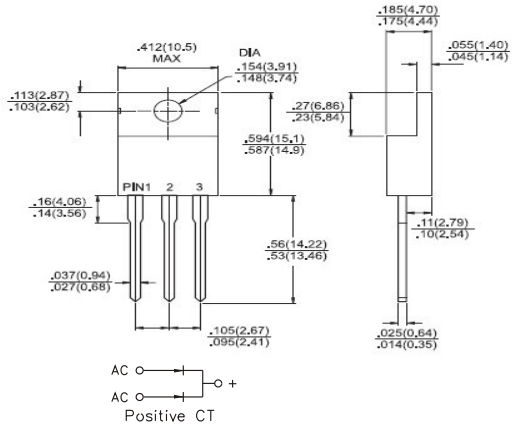
# MUR1605CT Thru MUR1660CT

## SUPERFAST RECOVERY RECTIFIER

**VOLTAGE - 50 TO 600 VOLTS  CURRENT - 16 AMPERES**




TO-220AB




Dimensions in inches and (millimeters)

## FEATURES

- Low forward voltage drop
- High Current Capability
- High reliability
- High surge Current Capability
- Good for switching mode application
- High temperature soldering：260°C/10seconds at terminals
- Pb free product are available：99% Sn above can meet RoHS environment substance directive request

## MECHANICAL DATA

Case：TO220AB Molded plastic
Epoxy ：UL 94V-0 rate flame retardant
Lead：Lead solderable per
MIL-STD-202, Method 208 guranteed
Polarity：As Marked
Mounting Position：Any
Weight：2.24gram

## MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

| PARAMETER | MUR 1605CT | MUR 1610CT | MUR 1615CT | MUR 1620CT | MUR 1630CT | MUR 1640CT | MUR 1660CT | UNITS |
|---|---|---|---|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | 50 | 100 | 150 | 200 | 300 | 400 | 600 | Volts |
| Maximum RMS Voltage | 35 | 70 | 105 | 140 | 210 | 320 | 420 | Volts |
| Maximum DC Blocking Voltage | 50 | 100 | 150 | 200 | 300 | 400 | 600 | Volts |
| Maximum Average Forward Rectified Current .375″ (9.5mm) Lead Length at $T_C$=100°C | 16 | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | 150 | | | | | | | Amps |
| Maximum Instandeous Forward Voltage at 8.0A | 0.95 | | | | 1.3 | | 1.7 | Volts |
| Maximum DC Reverse Current $T_A$=25°C at Rated DC Blocking Voltage $T_A$=100°C | 10<br>500 | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | 62 | | | | | | | pF |
| Maximum Reverse Recovery Time (Note 2) | 35 | | | | 50 | | | nS |
| Typical Thermal Resistance Note $R_{\theta JC}$ | 3.0 | | | | | | | °C / W |
| Operating and Storage Temperature Range $T_J$ | -55 to +150 | | | | | | | °C |

NOTES：
1. Measured at 1MHz and applied reverse Voltage of 4.0V D.C
2. Reverse Recovery Time test condition $I_F$=0.5A , $I_R$=1.0A , $I_{RR}$=0.25A
3. Thermal Resistance Junction to CASE

# SUPERFAST RECOVERY RECTIFIER

## RATINGS AND CHARACTERISTIC CURVES MUR1605CT THRU MUR1660CT

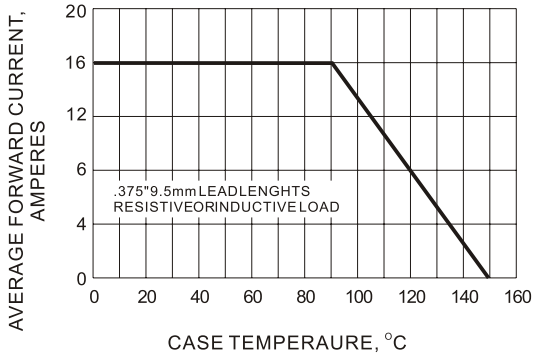



Fig.1- FORWARD CURRENT DERATING CURVE

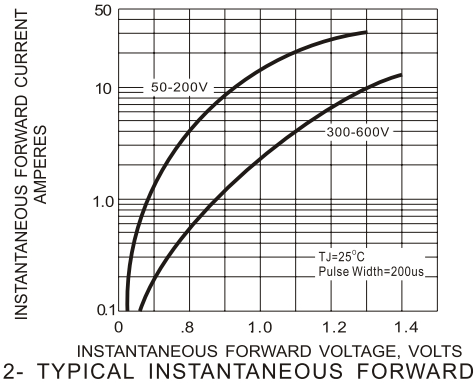



Fig.2- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

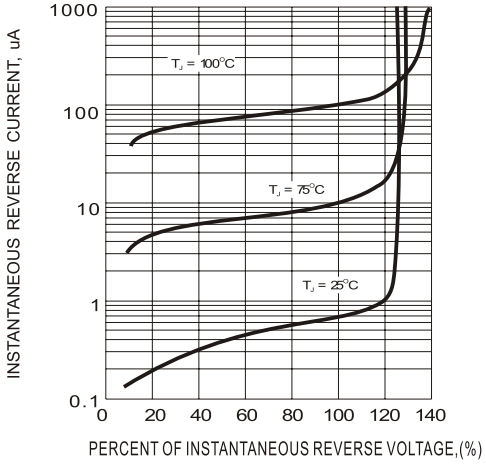



Fig.3- TYPICAL REVERSE CHARACTERISTIC

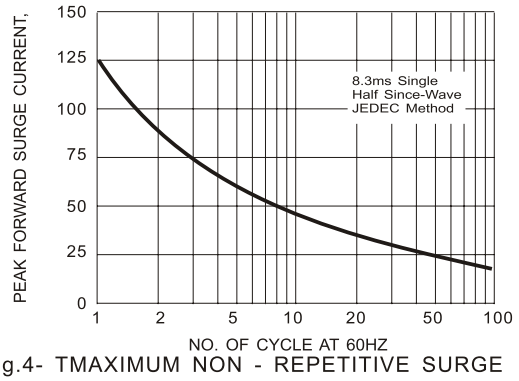



Fig.4- TMAXIMUM NON - REPETITIVE SURGE CURRENT

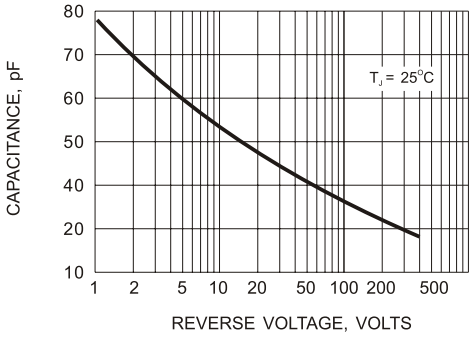



Fig.5- TYPICAL JUN CTI ON CAPACITANCE