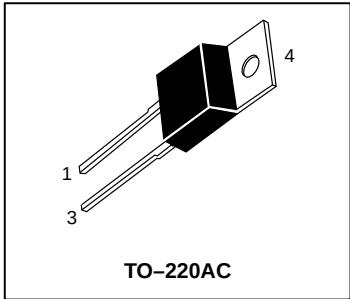
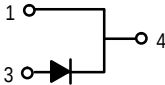


超快恢复二极管



ULTRAFAST  
RECTIFIERS  
20 AMPERES  
200-400-600 VOLTS



MAXIMUM RATINGS

| Rating                                                                                                     | Symbol                          | MUR         |      |      | Unit        |
|------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|------|------|-------------|
|                                                                                                            |                                 | 2020        | 2040 | 2060 |             |
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                     | $V_{RRM}$<br>$V_{RWM}$<br>$V_R$ | 200         | 400  | 600  | Volts       |
| Average Rectified Forward Current<br>Total Device, (Rated $V_R$ ), $T_C = 150^{\circ}C$                    | $I_F(AV)$                       | 20          |      |      | Amps        |
| Peak Repetitive Forward Current<br>(Rated $V_R$ , Square Wave, 20 kHz), $T_C = 150^{\circ}C$               | $I_{FM}$                        | 40          |      |      | Amps        |
| Nonrepetitive Peak Surge Current<br>(Surge applied at rated load conditions halfwave, single phase, 60 Hz) | $I_{FSM}$                       | 220         |      |      | Amps        |
| Operating Junction Temperature and Storage Temperature                                                     | $T_J, T_{stg}$                  | -50 to +150 |      |      | $^{\circ}C$ |

THERMAL CHARACTERISTICS

|                                              |                 |     |     |               |
|----------------------------------------------|-----------------|-----|-----|---------------|
| Maximum Thermal Resistance, Junction to Case | $R_{\theta JC}$ | 3.0 | 2.0 | $^{\circ}C/W$ |
|----------------------------------------------|-----------------|-----|-----|---------------|

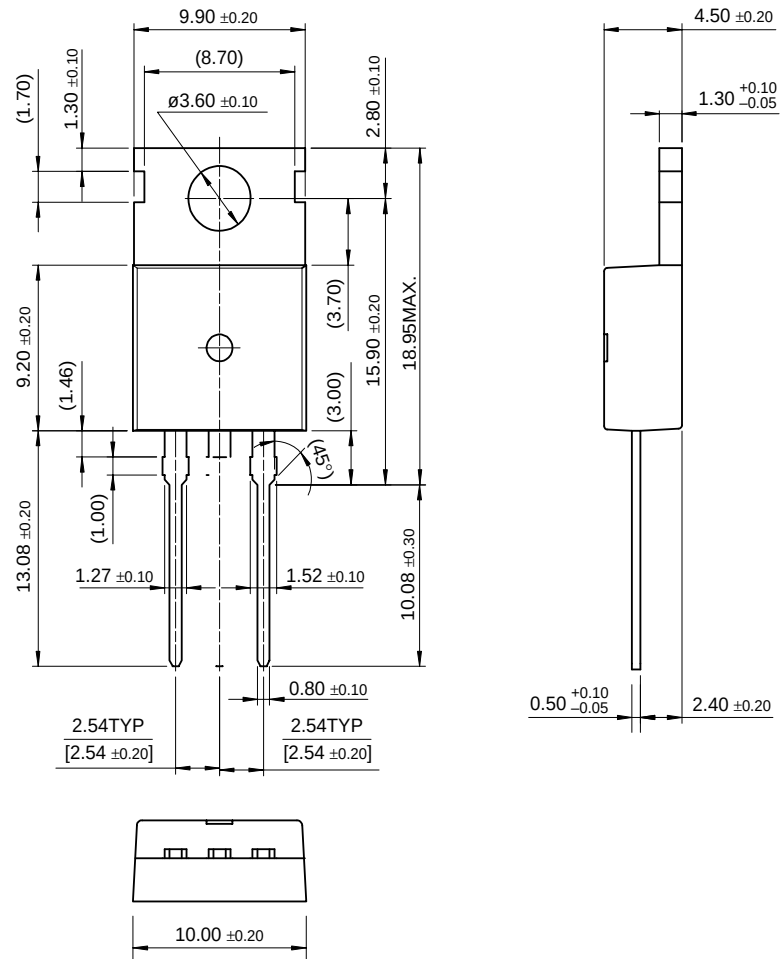
ELECTRICAL CHARACTERISTICS

|                                                                                                                                               |          |                |              |              |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------------|--------------|---------|
| Maximum Instantaneous Forward Voltage (1)<br>( $i_F = 20$ Amps, $T_C = 150^{\circ}C$ )<br>( $i_F = 20$ Amps, $T_C = 25^{\circ}C$ )            | $V_F$    | 0.895<br>0.975 | 1.00<br>1.30 | 1.20<br>1.50 | Volts   |
| Maximum Instantaneous Reverse Current (1)<br>(Rated dc Voltage, $T_J = 150^{\circ}C$ )<br>(Rated dc Voltage, $T_J = 25^{\circ}C$ )            | $i_R$    | 250<br>5.0     | 500<br>10    |              | $\mu A$ |
| Maximum Reverse Recovery Time<br>( $I_F = 1.0$ Amp, $di/dt = 50$ Amps/ $\mu s$ )<br>( $I_F = 0.5$ Amp, $i_R = 1.0$ Amp, $I_{REC} = 0.25$ Amp) | $t_{rr}$ | 35<br>25       | 60<br>50     |              | ns      |

(1) Pulse Test: Pulse Width = 300  $\mu s$ , Duty Cycle  $\leq 2.0\%$ .

## Package Demensions

## TO-220AC



Dimensions in Millimeters