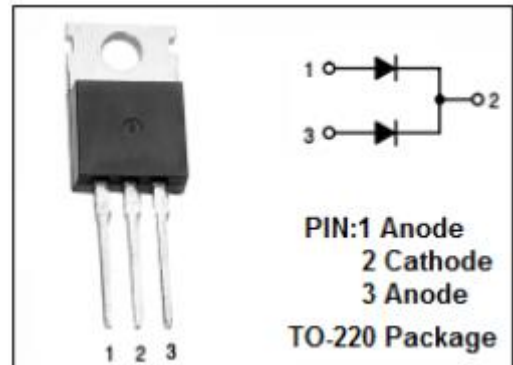


Ultrafast Rectifier**MUR1560CT****FEATURES**

- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Power switching circuits

**ABSOLUTE MAXIMUM RATINGS**($T_a=25^\circ\text{C}$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|---------------------------------|--|---------|------------------|
| V_{RRM} V_{RWM} V_R | Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | 600 | V |
| $I_{F(AV)}$ | Average Rectified Forward Current Per Leg Total device | 15 | A |
| I_{FSM} | Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz) | 110 | A |
| T_J | Junction Temperature | -55~150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ\text{C}$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------|--------------------------------------|-----|--------------------|
| $R_{th\ j-c}$ | Thermal Resistance, Junction to Case | 2 | $^\circ\text{C/W}$ |

ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$) (Pulse Test: Pulse Width=300 μs , Duty Cycle \leq 2%)

| SYMBOL | PARAMETER | CONDITIONS | MAX | UNIT |
|----------|---------------------------------------|---|---------|---------------|
| V_F | Maximum Instantaneous Forward Voltage | $I_F = 7.5\text{A}; T_J = 25^\circ\text{C}$ | 2.2 | V |
| I_R | Maximum Instantaneous Reverse Current | $V_R = V_{RWM}; T_J = 125^\circ\text{C}$ $V_R = V_{RWM}$ | 50 5 | μA |
| t_{rr} | Maximum Reverse Recovery Time | $I_F = 500\text{mA};$ | 50 | ns |

Ultrafast Rectifier

MUR1560CT

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