

## Ultrafast Rectifier

## MUR2060CT

## FEATURES

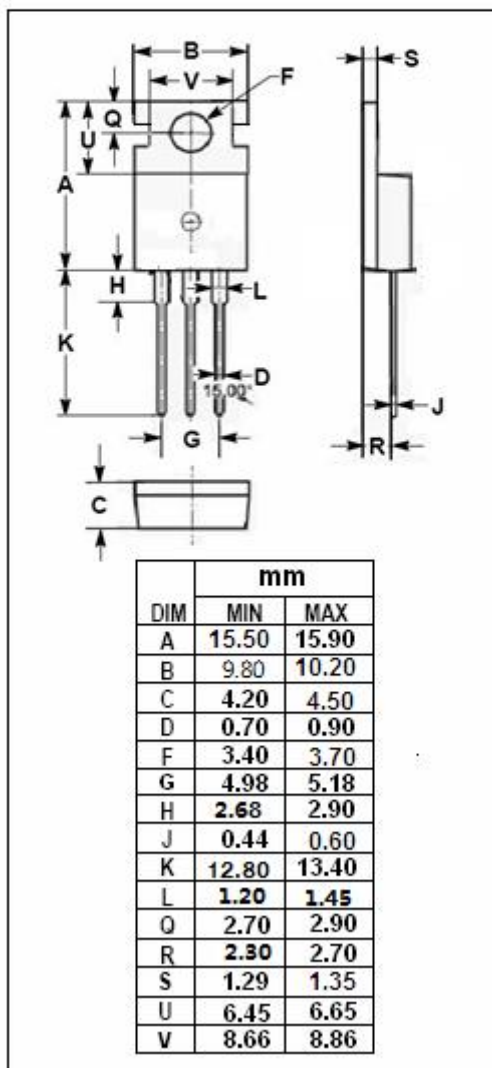
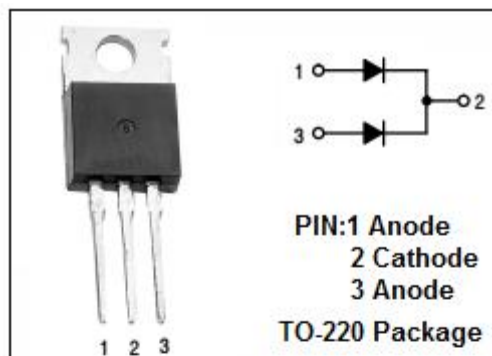
- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## 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	400	V
$I_{F(AV)}$	Average Rectified Forward Current Per Leg Total device	10 20	A
$I_{FSM}$	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	A
$P_D$	Maximum power dissipation	76	W
$T_J$	Junction Temperature	-55~150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



**Fast Recovery Rectifier****MUR2060CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{thj-c}$	Thermal Resistance, Junction to Case	2.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Maximum Instantaneous Forward Voltage	$I_F = 10\text{A}; T_j = 25^{\circ}\text{C}$	1.5	V
$I_R$	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}; T_j = 125^{\circ}\text{C}$ $V_R = V_{RWM}$	250 10	$\mu$ A
$t_{rr}$	Maximum Reverse Recovery Time	$I_F = 1\text{A};$	50	ns

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