

# Ultrafast Rectifier

## MUR1060CT

### FEATURES

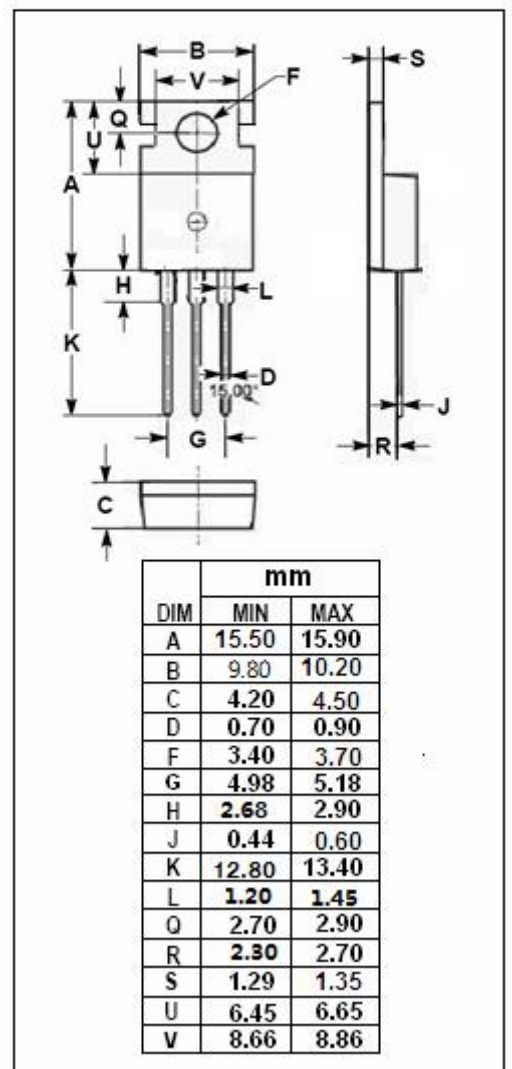
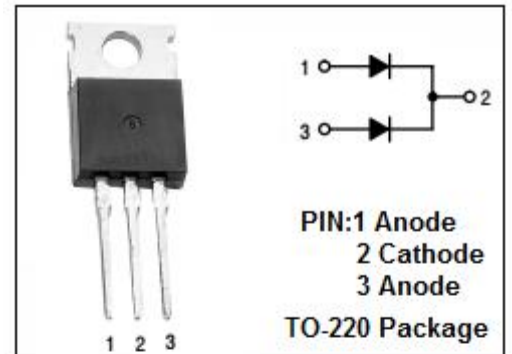
- High current capability
- Low forward voltage drop
- Low power loss,high efficiency
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Dual center tap rectifier suited for switched mode power supplies and high frequency DC to DC converters

### 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	10	A
$I_{FSM}$	Nonrepetitive Peak Surge Current	100	A
$T_J$	Junction Temperature	-55~150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



**Fast Recovery Rectifier****MUR1060CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	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	$I_F=5\text{A}; T_j=25^{\circ}\text{C}$	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	$I_F=0.5\text{A}; I_R=1.0\text{A}; I_{rr}=0.25\text{A}$	50	ns

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