

Ultrafast Rectifier

MUR1220CT

FEATURES

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

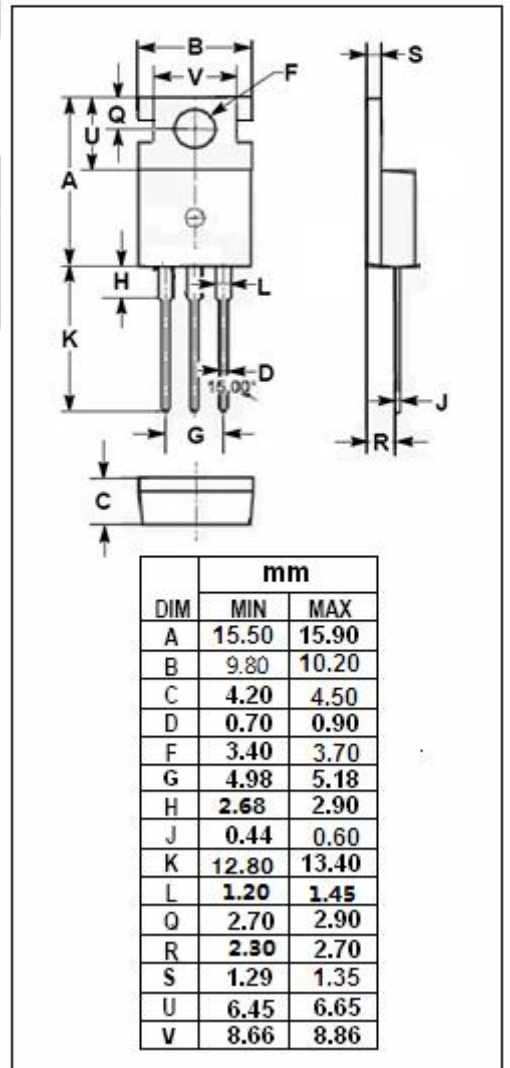
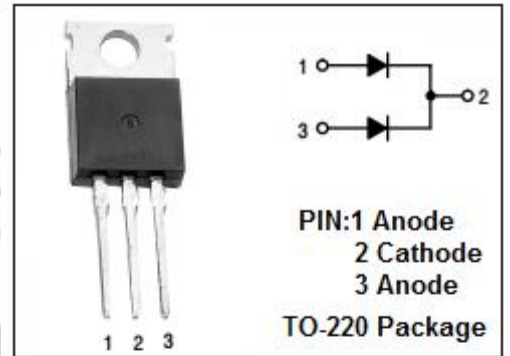
APPLICATIONS

- Automotive environment
- Plating power supply
- Car audio amplifiers and sound device system

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ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	12	A
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current	100	A
T <sub>J</sub>	Junction Temperature	-55~150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C



## Fast Recovery Rectifier

## MUR1220CT

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{thj-c}$	Thermal Resistance, Junction to Case	2.2	$^{\circ}\text{C}/\text{W}$

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	$I_F=6\text{A}; T_j=25^{\circ}\text{C}$	0.98	V
$I_R$	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}; T_j=125^{\circ}\text{C}$ $V_R=V_{RWM}$	250 10	$\mu\text{A}$
$t_{rr}$	Maximum Reverse Recovery Time	$I_F=0.5\text{A}; I_R=1.0\text{A}; I_{rr}=0.25\text{A}$	35	ns

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