

### **Ultrafast Rectifier**

## **MUR2030CT**

#### **FEATURES**

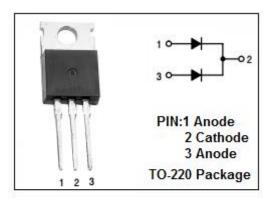
- Guarding for over voltage protection
- · Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

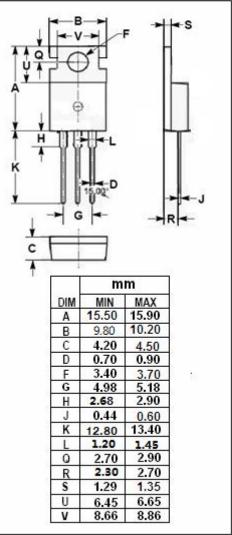
### **APPLICATIONS**

- Switching power supply
- · Power switching circuits

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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	300	٧
I <sub>F(AV)</sub>	Average Rectified Forward Current Per Leg Total device	10 20	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	125	A
P <sub>D</sub>	Maximum power dissipation	62.5	W
TJ	Junction Temperature	-55~150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C







# **Fast Recovery Rectifier**

# MUR2030CT

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	2.0	°C/W

### ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse Test: Pulse Width=300 µ s.Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> =10A;Tj=125°C I <sub>F</sub> = 10A;Tj=25°C	1.35 1.5	V
lr	Maximum Instantaneous Reverse Current	V <sub>R</sub> = V <sub>RWM</sub> ; Tj=100°C V <sub>R</sub> = V <sub>RWM</sub>	500 50	μ <b>А</b>
t <sub>rr</sub>	Maximum Reverse Recovery Time	IF =1A;	50	ns

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