



Ultrafast Rectifier

MUR2040CT

FEATURES

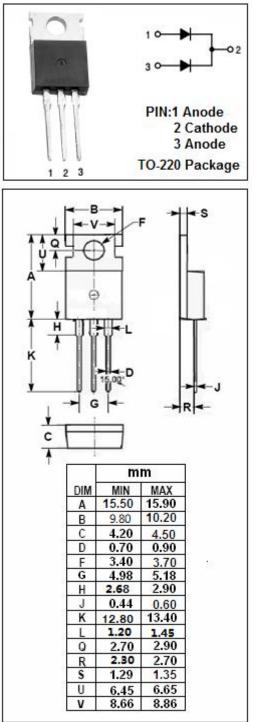
- Guarding for over voltage protection
- · Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Power switching circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
Vrrm Vrwm Vr	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
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	A
P _D	Maximum power dissipation	76	W
TJ	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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INCHANGE SEMICONDUCTOR

Fast Recovery Rectifier

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case		°C/W

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A ;Tj=25°C	1.3	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tj=125°C V _R = V _{RWM}	250 10	μA
t _{rr}	Maximum Reverse Recovery Time	IF =1A;	50	ns

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