

Ultrafast Rectifier

MUR1640CT

FEATURES

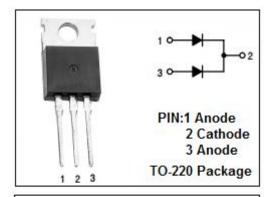
- Ultrafast with soft recovery
- 175°C Operating temperature
- Popular TO-220 package
- · Avalanche energy rated
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

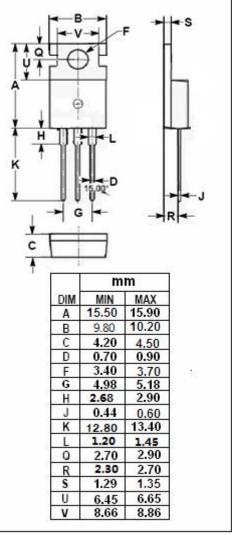
APPLICATIONS

- · Switching power supply
- · Power switching circuits
- · General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
l _{F(AV)}	Average Rectified Forward Current Per Leg Total device	8 16	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	100	Α
P _D	Maximum power dissipation	75	W
TJ	Junction Temperature	-65~175	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~175	${\mathbb C}$







Fast Recovery Rectifier

MUR1640CT

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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
V _{F*}	Maximum Instantaneous Forward Voltage	I _F =8A ;Tj=25 ℃ I _F = 8A ;Tj=150 ℃	1.3 1.0	V
I _{R*}	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tj=150°C V _R = V _{RWM}	500 10	μ А
t _{rr}	Maximum Reverse Recovery Time	IF =1A;di/dt = 50A/μs	60	ns

^{*:}Pulse test ,Pulse width=300us,duty cycle≤2%

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