

Ultrafast Rectifier

MUR1560G

FEATURES

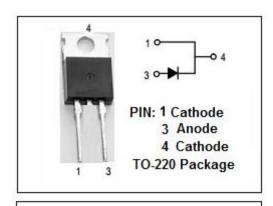
- Ultrafast 35 and 60 nanosecond recovery time
- Popular TO-220 package
- · Low forward drop
- · Avalanche energy rated
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

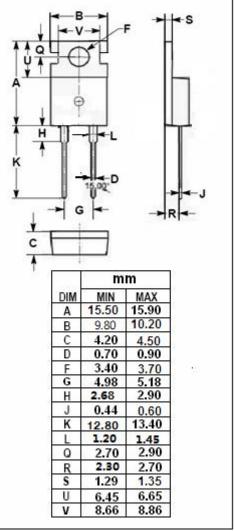
APPLICATIONS

 The MUR1560 is designed for use in switching power Supplies,inverters and as free wheeling diodes.

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	600	V
I _{F(AV)}	Average Rectified Forward Current @Tc=145℃	15	Α
IFRM	Peak Rectified forward current @Tc=145℃	30	Α
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	Α
T _J	Junction Temperature	-65~175	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.5	°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 =15A ;Tj=25 °C I _F = 15A ;Tj=150 °C	1.5 1.2	V
I _{R*}	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tj=150°C V _R = V _{RWM}	1000 10	mA
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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