

Ultrafast Rectifier

MUR1520

FEATURES

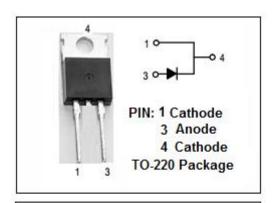
- Ultrafast with soft recovery
- Operating temperature
- · Reverse voltage
- · Avalanche energy rated
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

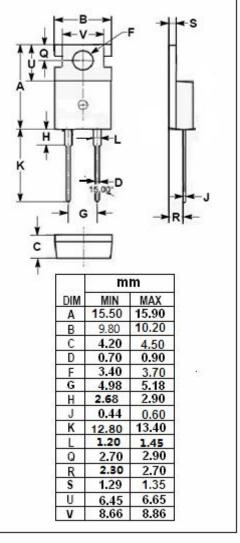
APPLICATIONS

- 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	200	V
I _{F(AV)}	Average Rectified Forward Current	15	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	200	А
P _D	Maximum power dissipation	100	W
T_J	Junction Temperature -55~175		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$







Fast Recovery Rectifier

MUR1520

THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(T_a=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	1.05 0.85	V
I _R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}$; $Tj = 150$ °C $V_R = V_{RWM}$	500 100	μ Α
t _{rr}	Maximum Reverse Recovery Time	IF =1A;di/dt = 100A/μs	30	ns

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

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