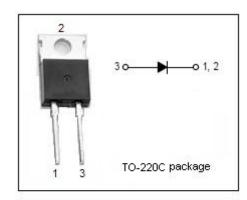


Ultrafast Recovery Rectifier

MUR1530

FEATURES

- · Ultrafast Recovery Time
- · Low Forward Voltage
- Low Leakage Current
- 175°C Operating Junction Temperature
- High Temperature Glass Passivated Junction
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

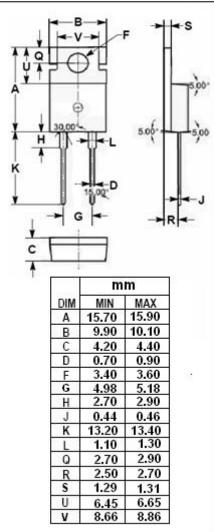


APPLICATIONS

 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	300	V
I _{F(AV)}	Average Rectified Forward Current	15	A
I _{FRM}	Peak Rectified forward current	30	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	А
TJ	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-65~175	°C





Ultrafast Recovery Rectifier

MUR1530

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.5	°C/W

ELECTRICAL CHARACTERISTICS(T_a=25°C) (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	1.25 1.12	V
I _{R*}	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}$; $Tj = 150$ °C $V_R = V_{RWM}$	500 10	μ А
trr	Maximum Reverse Recovery Time	IF =1A;di/dt = 50A/μs	60	ns

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



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