

Ultrafast Rectifier

MUR30120PT

FEATURES

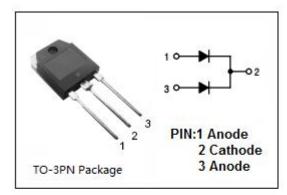
- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

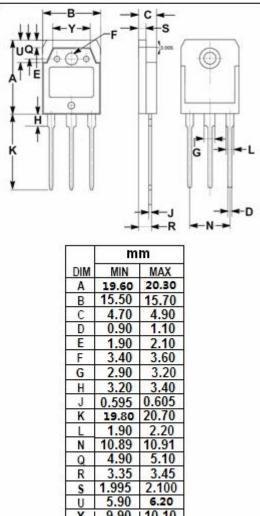
APPLICATIONS

- · Switching power supply
- · Rectifier in switch mode supplies

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	1200	V
I _{F(AV)}	Average Rectified Forward Current	30	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	А
P _D	Maximum power dissipation	78	W
TJ	Junction Temperature	-40~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~150	${\mathbb C}$







Fast Recovery Rectifier

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THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A ;Tj=150°C I _F = 15A ;Tj=25°C	2.2 2.6	V
I _R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}; Tj = 25 ^{\circ}C$ $V_R = 0.8 V_{RWM}; Tj = 25 ^{\circ}C$ $V_R = 0.8 V_{RWM}; Tj = 125 ^{\circ}C$	250 150 4000	μ Α
t _{rr}	Maximum Reverse Recovery Time	IF =1A;	70	ns

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