

Ultrafast Rectifier

MUR3060WT

FEATURES

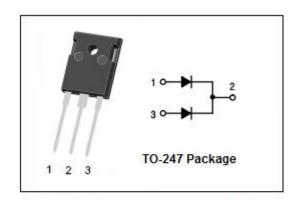
- · Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

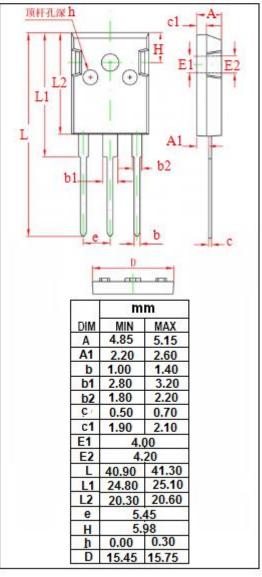


- · Switching power supply
- · Rectifier in switch mode supplies



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 Per Leg Total device	15 30	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	Α
P _D	Maximum power dissipation	100	W
TJ	Junction Temperature	-40~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~175	$^{\circ}$







Fast Recovery Rectifier

MUR3060WT

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 ℃ I _F = 15A ;Tj=150 ℃	1.7 1.4	V
I _{R*}	Maximum Instantaneous Reverse Current	$V_{R}=V_{RWM};Tj=25^{\circ}\mathbb{C}$ $V_{R}=V_{RWM};Tj=150^{\circ}\mathbb{C}$	10 1000	μ А
t _{rr}	Maximum Reverse Recovery Time	IF =1A;	60	ns

^{*:}Pulse Test:Pulse width=300us,duty cycle≤2.0%

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