

Ultrafast Rectifier

MUR3060WT

FEATURES

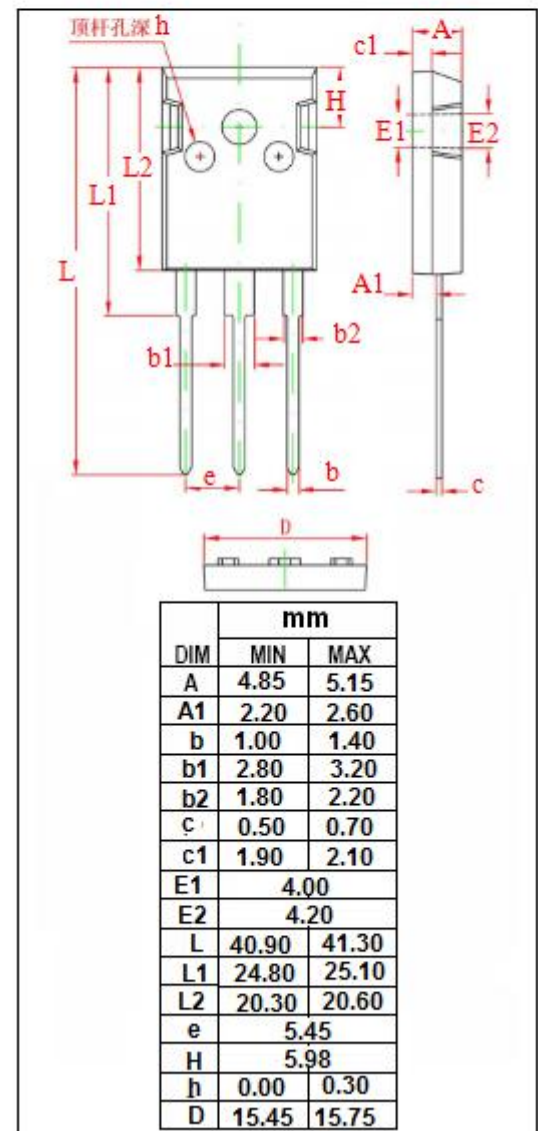
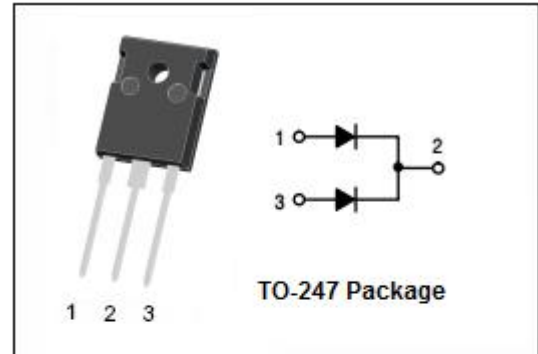
- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Rectifier in switch mode supplies

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

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	A
I_{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	A
P_D	Maximum power dissipation	100	W
T_J	Junction Temperature	-40~175	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-40~175	$^{\circ}\text{C}$



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 ($T_a=25^\circ\text{C}$) (Pulse Test: Pulse Width=300 μ s, Duty Cycle $\leq 2\%$)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F^*	Maximum Instantaneous Forward Voltage	$I_F = 15\text{A}; T_j = 25^\circ\text{C}$ $I_F = 15\text{A}; T_j = 150^\circ\text{C}$	1.7 1.4	V
I_R^*	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}; T_j = 25^\circ\text{C}$ $V_R = V_{RWM}; T_j = 150^\circ\text{C}$	10 1000	μ A
t_{rr}	Maximum Reverse Recovery Time	$I_F = 1\text{A};$	60	ns

*: Pulse Test: Pulse width=300 μ s, duty cycle $\leq 2.0\%$

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