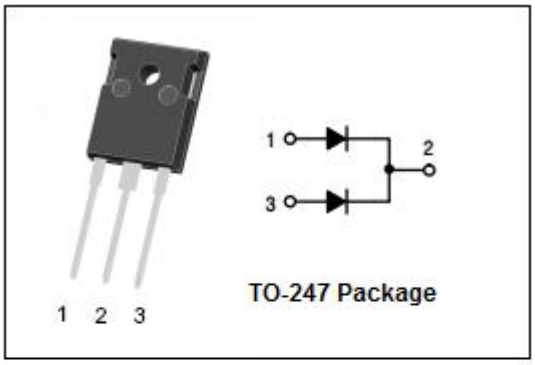
Ultrafast Rectifier

MUR3060WT



FEATURES

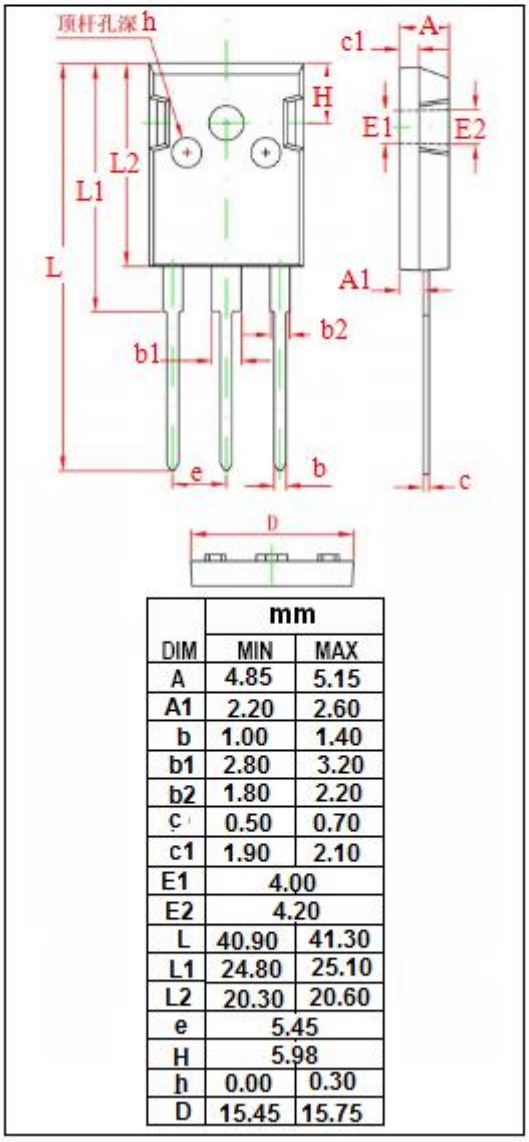
- Guarding for over voltage protection
- Dual rectifier construction,positive center tap
- Metal of silicon rectifier,majority carrier conduction
- Low forward voltage,high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Rectifier in switch mode supplies

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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	℃
T_{stg}	Storage Temperature Range	-40~175	℃



DIM	mm MIN	MAX
A	4.85	5.15
A1	2.20	2.60
b	1.00	1.40
b1	2.80	3.20
b2	1.80	2.20
c	0.50	0.70
c1	1.90	2.10
E1	4.00	
E2	4.20	
L	40.90	41.30
L1	24.80	25.10
L2	20.30	20.60
e	5.45	
H	5.98	
h	0.00	0.30
D	15.45	15.75

Fast Recovery Rectifier MUR3060WT

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1.5	℃/W

ELECTRICAL CHARACTERISTICS(T_a=25℃) (Pulse Test: Pulse Width=300 μs,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℃ V_R= $V_{RWM;}$Tj=150℃	10 1000	μA
t_{rr}	Maximum Reverse Recovery Time	IF =1A;	60	ns

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