

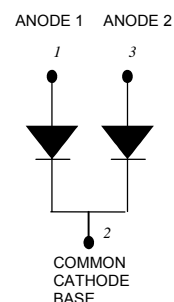
MUR3060WT ULTRAFAST PLASTIC RECTIFIER

Applications:

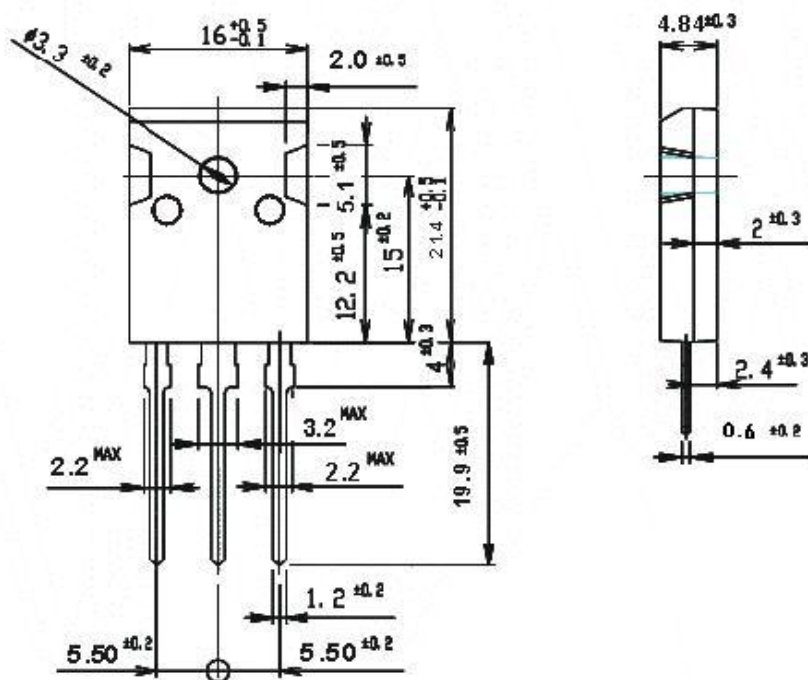
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

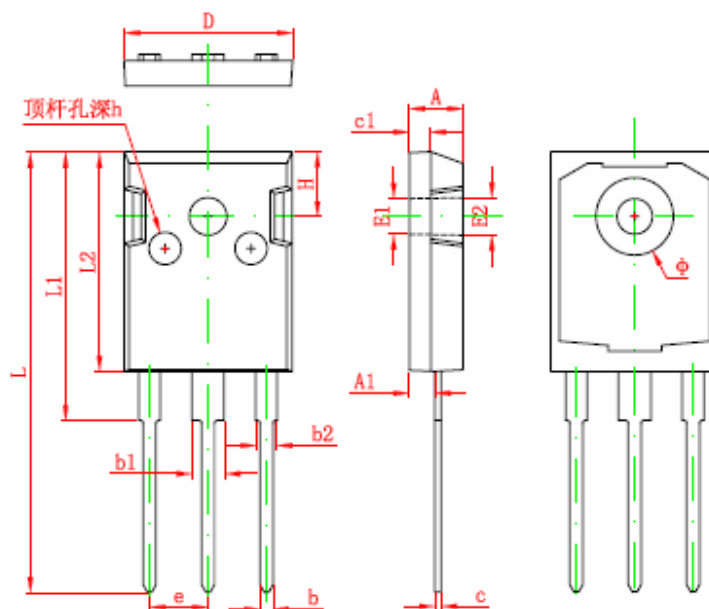
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In mm/Inches



OPTION 1(SR)



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|--------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 4.850 | 5.150 | 0.191 | 0.200 |
| A1 | 2.200 | 2.600 | 0.087 | 0.102 |
| b | 1.000 | 1.400 | 0.039 | 0.055 |
| b1 | 2.800 | 3.200 | 0.110 | 0.126 |
| b2 | 1.800 | 2.200 | 0.071 | 0.087 |
| c | 0.500 | 0.700 | 0.020 | 0.028 |
| c1 | 1.900 | 2.100 | 0.075 | 0.083 |
| D | 15.450 | 15.750 | 0.608 | 0.620 |
| E1 | 3.500 REF | | 0.138 REF | |
| E2 | 3.600 REF | | 0.142 REF | |
| L | 40.900 | 41.300 | 1.610 | 1.626 |
| L1 | 24.800 | 25.100 | 0.976 | 0.988 |
| L2 | 20.300 | 20.600 | 0.799 | 0.811 |
| Φ | 7.100 | 7.300 | 0.280 | 0.287 |
| e | 5.450 TYP | | 0.215 TYP | |
| H | 5.980 REF | | 0.235 REF | |
| h | 0.000 | 0.300 | 0.000 | 0.012 |

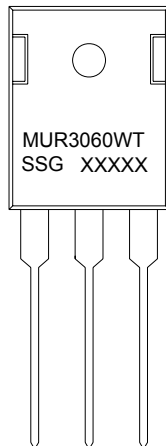
OPTION 2(CJ)

TO-247AD

Technical Data
Data Sheet N0322, Rev. A

Green Products

Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type
30 = Forward Current (30A)
60 = Reverse Voltage (600V)
WT = Configuration
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information:

| Device | Package | Shipping |
|-----------|-----------------------|---------------|
| MUR3060WT | TO-247AD (Pb-Free) | 30 pcs / tube |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

| Characteristics | Symbol | Condition | Max. | | Units |
|---|------------|--|-----------------------|-----|-------|
| Peak Inverse Voltage | V_{RWM} | - | 600 | | V |
| Max. Average Forward | $I_F (AV)$ | 50% duty cycle @Tc=100°C, rectangular wave form | 30 | | A |
| Max. Peak One Cycle Non-Repetitive Surge Current (Per leg) | I_{FSM} | 8.3ms, Half Sine pulse | T _J =45°C | 110 | A |
| | | | T _J =150°C | 95 | |

Electrical Characteristics:

| Characteristics | Symbol | Condition | Max. | Units |
|-------------------------------------|----------|--|------|---------------|
| Max. Forward Voltage Drop(Per leg)* | V_{F1} | @ 15A, Pulse, $T_J = 25^{\circ}\text{C}$ | 1.7 | V |
| | V_{F2} | @ 15A, Pulse, $T_J = 150^{\circ}\text{C}$ | 1.5 | V |
| Max. Reverse Current* | I_{R1} | @ V_R = rated V_R $T_J = 25^{\circ}\text{C}$ | 50 | μA |
| | I_{R2} | @ V_R = rated V_R $T_J = 125^{\circ}\text{C}$ | 3 | mA |
| Max. Reverse Recovery Time | t_{rr} | $I_F=500\text{mA}$, $I_R=1\text{A}$, and $I_{rm}=250\text{mA}$ | 50 | ns |

* Pulse width < 300 μs , duty cycle < 2%

Thermal-Mechanical Specifications:

| Characteristics | Symbol | Condition | Specification | Units |
|---|-----------------|--------------|---------------|----------------------|
| Max. Junction Temperature | T_J | - | -55 to +150 | $^{\circ}\text{C}$ |
| Max. Storage Temperature | T_{stg} | - | -55 to +150 | $^{\circ}\text{C}$ |
| Maximum Thermal Resistance Junction to Case | $R_{\theta JC}$ | DC operation | 3.5 | $^{\circ}\text{C/W}$ |
| Approximate Weight | wt | - | 6.7 | g |
| Case Style | TO-247AD | | | |

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