

Green Products

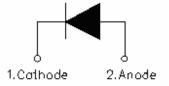
MUR1060 ULTRAFAST PLASTIC RECTIFIER

Applications:

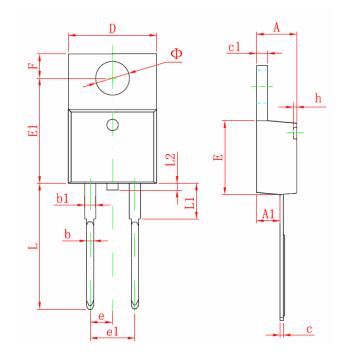
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Utra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- 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



| Symbol | Dimensions In Millimeters | | |
|----------|---------------------------|--------|--|
| Syllibol | Min | Max | |
| Α | 4.470 | 4.670 | |
| A1 | 2.520 | 2.820 | |
| р | 0.710 | 0.910 | |
| b1 | 1.170 | 1.370 | |
| С | 0.310 | 0.530 | |
| c1 | 1.170 | 1.370 | |
| D | 10.010 | 10.310 | |
| E | 8.500 | 8.900 | |
| E1 | 12.060 | 12.460 | |
| е | 2.540 TYP | | |
| e1 | 4.980 | 5.180 | |
| F | 2.590 | 2.890 | |
| h | 0.000 | 0.300 | |
| L | 13.400 | 13.800 | |
| L1 | 3.560 | 3.960 | |
| L2 | | 1.000 | |
| Ф | 3.735 | 3.935 | |

OPTION 1(CJ)

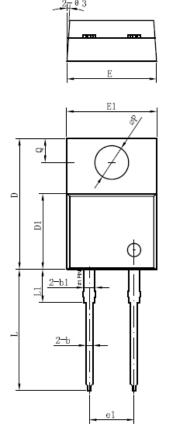
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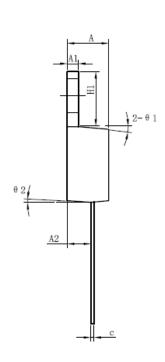
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| Symbol | Dimensions in millimeters | | | |
|--------|---------------------------|---------|-------|--|
| Symbol | Min. | Typical | Max. | |
| Α | 4.55 | 4.70 | 4.85 | |
| A1 | 1.17 | 1.27 | 1.37 | |
| A2 | 2.59 | 2.69 | 2.89 | |
| b | 0.71 | 0.81 | 0.96 | |
| b1 | | 1.27 | | |
| С | 0.36 | 0.38 | 0.61 | |
| D | 14.64 | 14.94 | 15.24 | |
| D1 | 8.55 | 8.07 | 8.85 | |
| E | 10.01 | 10.16 | 10.31 | |
| E1 | 9.98 | 10.18 | 10.38 | |
| e1 | | 5.08 | | |
| H1 | 6.04 | 6.24 | 6.44 | |
| L | 13.00 | 13.86 | 14.08 | |
| L1 | | 3.80 | | |
| ФР | 3.74 | 3.84 | 4.04 | |
| Q | 2.54 | 2.74 | 2.94 | |
| Θ1 | | 5° | | |
| Θ2 | | 4° | | |
| Θ3 | | 4° | | |

OPTION 2(HD)

TO-220AC





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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

10 = Forward Current (10A) 60 = Reverse Voltage (600V)

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

| Device | Package | Shipping |
|---------|-----------|--------------|
| MUR1060 | TO-220AC | EOpos / tubo |
| | (Pb-Free) | 50pcs / 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℃ rectangular wave form | 10 | А |
| Max. Peak One Cycle Non- Repetitive Surge Current | I _{FSM} | 8.3 ms, half Sine pulse | 125 | А |

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MUR1060

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Electrical Characteristics:

| Characteristics | Symbol | Condition | Max. | Units |
|----------------------------|-----------------|---------------------------------------|------|-------|
| Max. Forward Voltage Drop | V_{F1} | @ 10A, Pulse, T _J = 25℃ | 2.2 | V |
| | V_{F2} | @ 10 A, Pulse, T _J = 100°C | 2.0 | V |
| Max. Reverse Current | I _{R1} | @V _R = rated VR | 5 | μΑ |
| | | T _J = 25℃ | | |
| | I _{R2} | @V _R = rated VR | 50 | μΑ |
| | | T _J = 100 ℃ | | |
| Max. Reverse Recovery Time | t _{rr} | IF=10A, di/dt=50A/μs, 25℃ | 50 | ns |

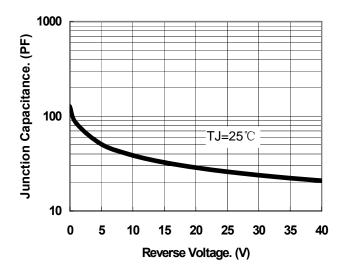
^{*} Pulse Width < 300µs, Duty Cycle <2%

Measured lead to lead 5 mm from package body

Thermal-Mechanical Specifications:

| Characteristics | Symbol | Condition | Specification | Units |
|---|------------------|--------------|---------------|----------------------|
| Max. Junction Temperature | T_J | - | -55 to +150 | $^{\circ}\mathbb{C}$ |
| Max. Storage Temperature | T _{stg} | - | -55 to +150 | $^{\circ}\mathbb{C}$ |
| Maximum Thermal Resistance Junction to Case | $R_{	heta JC}$ | DC operation | 4 | °C/W |
| Approximate Weight | wt | - | 1.6 | g |
| Case Style | TO-220AC | | | |

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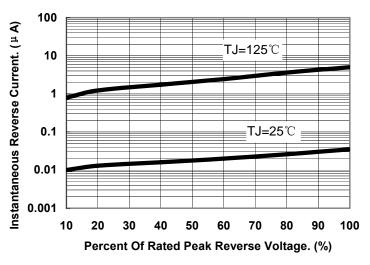


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

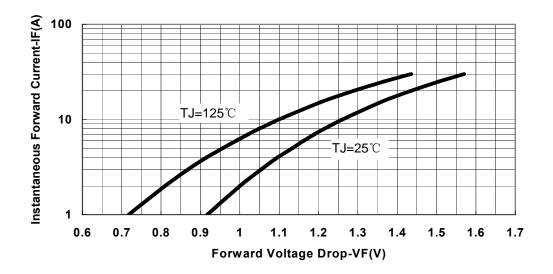


Fig.3-Typical Forward Voltage Drop Characteristics

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