



Micro Commercial Components

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 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

RL1601C THRU RL1607C

16 Amp Glass Passivated Silicon Rectifier 50 to 1000 Volts

Features

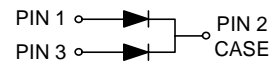
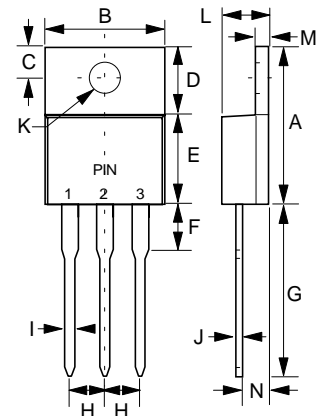
- Low Power Loss, High Efficiency
- Low Forward Voltage Drop
- Low Thermal Resistance
- High Current Capability
- High Surge Capability
- High Reliability

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Typical Thermal Resistance Junction to Case ($R_{\theta JC}$) 3.0°C/W

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|--|---------------------|-----------------------------|
| RL1601C | 50V | 35V | 50V |
| RL1602C | 100V | 70V | 100V |
| RL1603C | 200V | 140V | 200V |
| RL1604C | 400V | 280V | 400V |
| RL1605C | 600V | 420V | 600V |
| RL1606C | 800V | 560V | 800V |
| RL1607C | 1000V | 700V | 1000V |

TO-220AB



Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 16.0A | $T_C = 100^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 200A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.1V | $I_{FM} = 8.0\text{ A}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μA 100 μA | $T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 40pF | Measured at 1.0MHz, $V_R = 4.0\text{V}$ |

NOTES: Suffix "A" = Common Anode.

| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .560 | .625 | 14.22 | 15.88 | |
| B | .380 | .420 | 9.65 | 10.67 | |
| C | .100 | .135 | 2.54 | 3.43 | |
| D | .230 | .270 | 5.84 | 6.86 | |
| E | .380 | .420 | 9.65 | 10.67 | |
| F | ----- | .250 | ----- | 6.35 | |
| G | .500 | .580 | 12.70 | 14.73 | |
| H | .090 | .110 | 2.29 | 2.79 | |
| I | .020 | .045 | 0.51 | 1.14 | |
| J | .012 | .025 | 0.30 | 0.64 | |
| K | .139 | .161 | 3.53 | 4.09 | ∅ |
| L | .140 | .190 | 3.56 | 4.83 | |
| M | .045 | .055 | 1.14 | 1.40 | |
| N | .080 | .115 | 2.03 | 2.92 | |

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