

Obsolete



Micro Commercial Components



Micro Commercial Components
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RL251 THRU RL257

2.5 Amp Silicon Rectifier 50 to 1000 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance (R_{θJA}) 35°C/W

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| RL251 | --- | 50V | 35V | 50V |
| RL252 | --- | 100V | 70V | 100V |
| RL253 | --- | 200V | 140V | 200V |
| RL254 | --- | 400V | 280V | 400V |
| RL255 | --- | 600V | 420V | 600V |
| RL256 | --- | 800V | 560V | 800V |
| RL257 | --- | 1000V | 700V | 1000V |

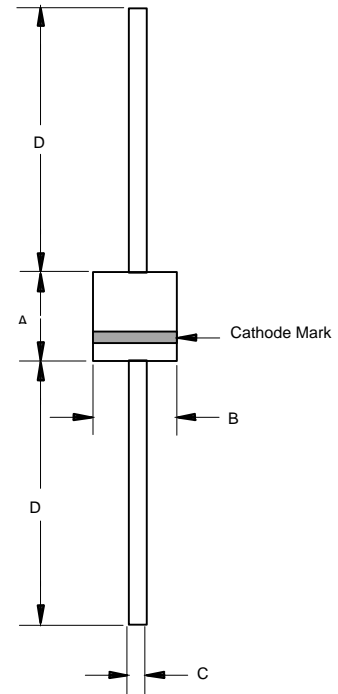
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|--------------------|---------------|---|
| Average Forward Current | I _{F(AV)} | 2.5 A | T _A = 75°C |
| Peak Forward Surge Current | I _{FSM} | 150A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V _F | 1.0V | I _{FM} = 2.5A; T _A = 25°C* |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 5.0µA 50µA | T _A = 25°C T _A = 100°C |
| Typical Junction Capacitance | C _J | 35pF | Measured at 1.0MHz, V _R =4.0V |

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

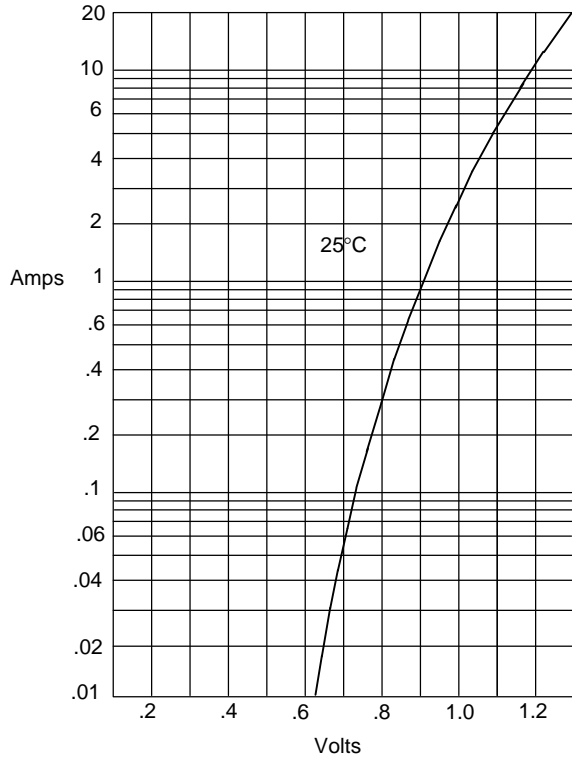
R-3



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | --- | .160 | --- | 4.10 | |
| B | --- | .160 | --- | 4.10 | |
| C | .040 | .042 | 1.01 | 1.07 | |
| D | 1.000 | --- | 25.40 | --- | |

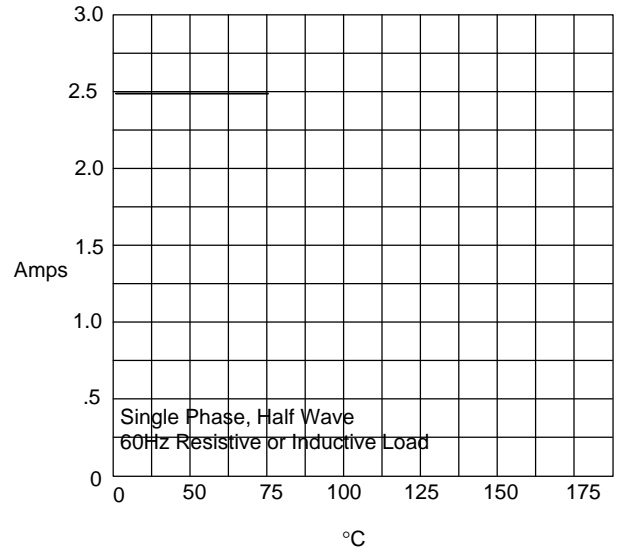
RL251 thru RL257

Figure 1
Typical Forward Characteristics



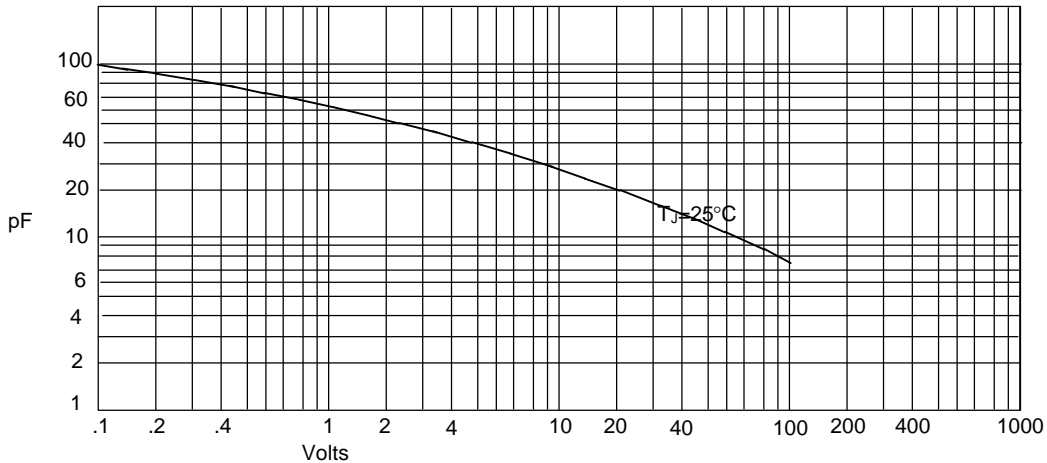
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



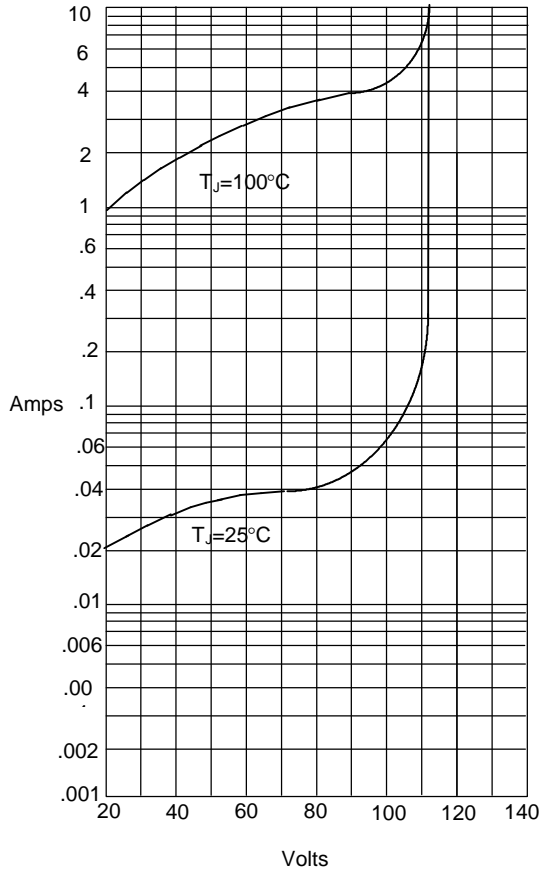
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



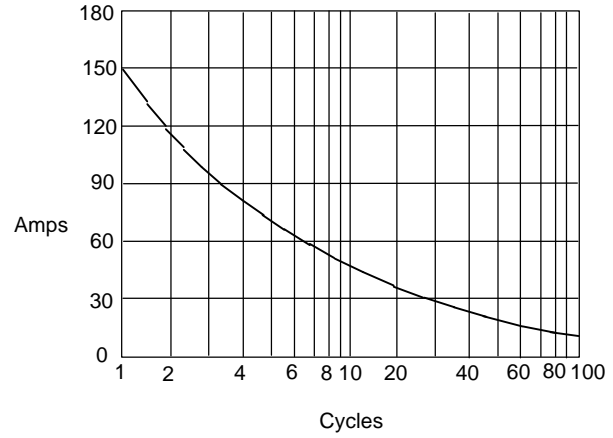
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
 Typical Reverse Characteristics



Instantaneous Reverse Current - Amps versus
 Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
 Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
 Number Of Cycles At 60Hz - Cycles



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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |
| Part Number-BP | Bulk: 25Kpcs/Carton |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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