



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



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

RL251
THRU
RL257

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 (RθJA) 35°C/W

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include RL251 through RL257.

Electrical Characteristics @ 25°C Unless Otherwise Specified

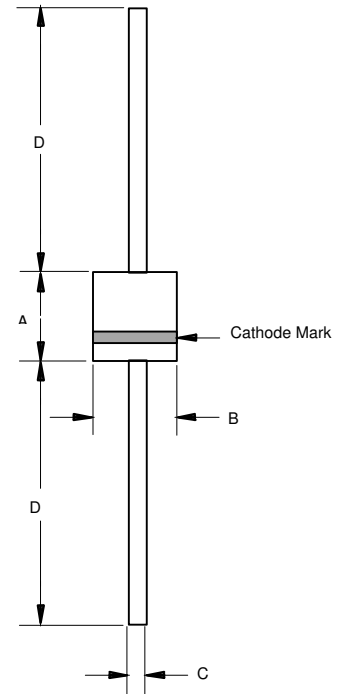
Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward Current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current At Rated DC Blocking Voltage, Typical Junction Capacitance.

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

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

2.5 Amp
Silicon Rectifier
50 to 1000 Volts

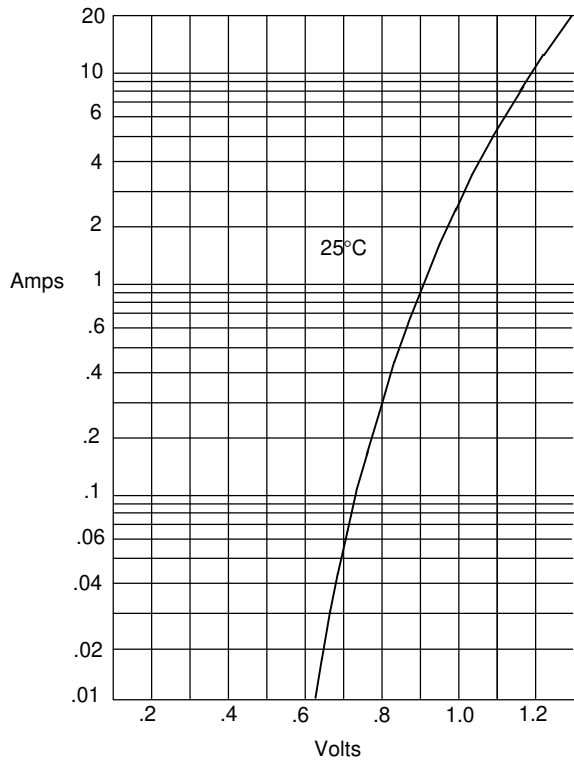
R-3



DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows include dimensions A, B, C, and D.

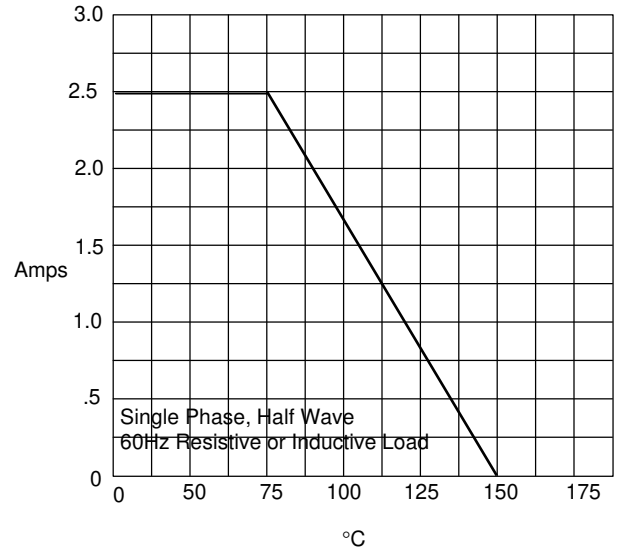
RL251 thru RL257

Figure 1  
 Typical Forward Characteristics



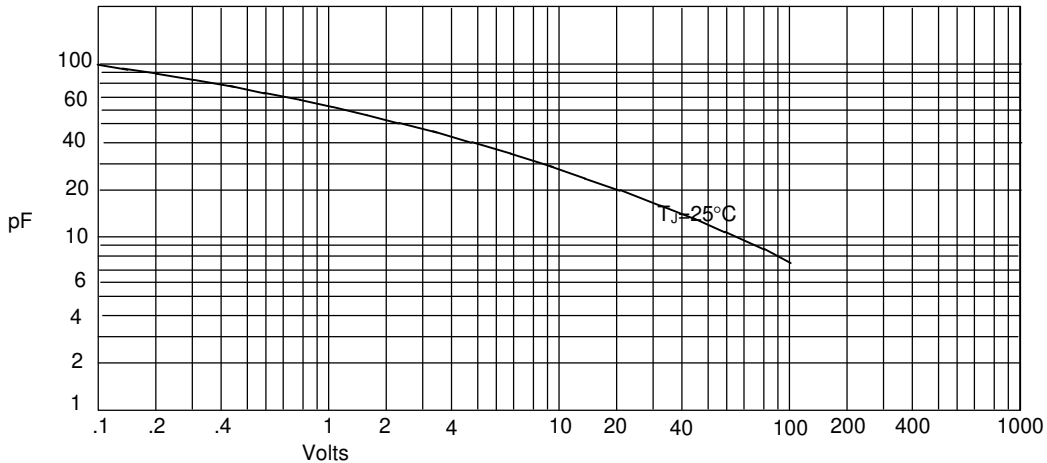
Instantaneous Forward Current - Amperes *versus*  
 Instantaneous Forward Voltage - Volts

Figure 2  
 Forward Derating Curve



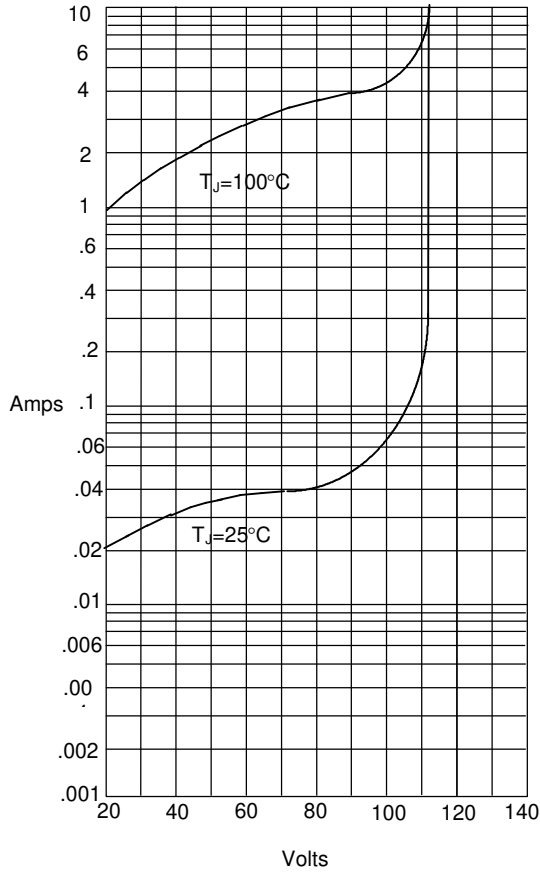
Average Forward Rectified Current - Amperes *versus*  
 Ambient Temperature - °C

Figure 3  
 Junction Capacitance



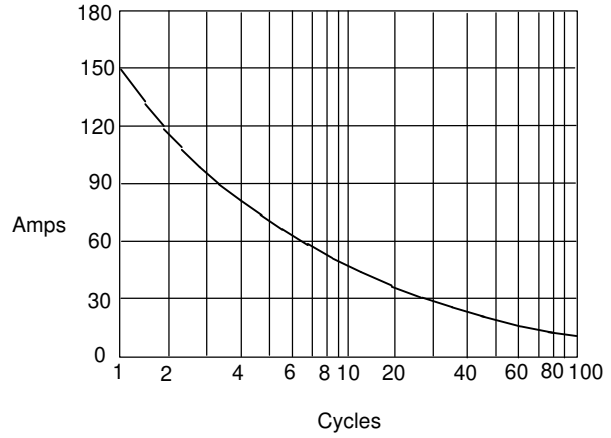
Junction Capacitance - pF *versus*  
 Reverse Voltage - Volts

Figure 4  
 Typical Reverse Characteristics



Instantaneous Reverse Current - Amperes 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





Micro Commercial Components

### Ordering Information :

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

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

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