

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

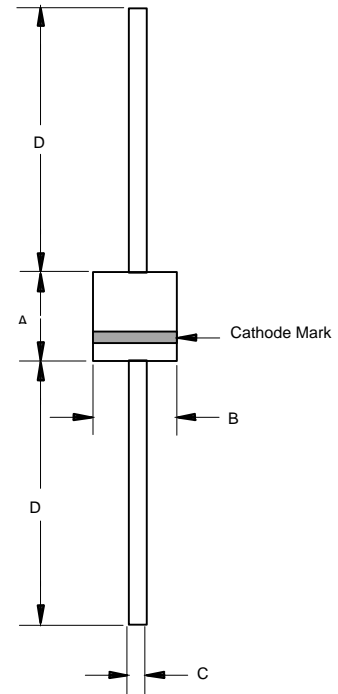
Electrical Characteristics @ 25°C Unless Otherwise Specified

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.

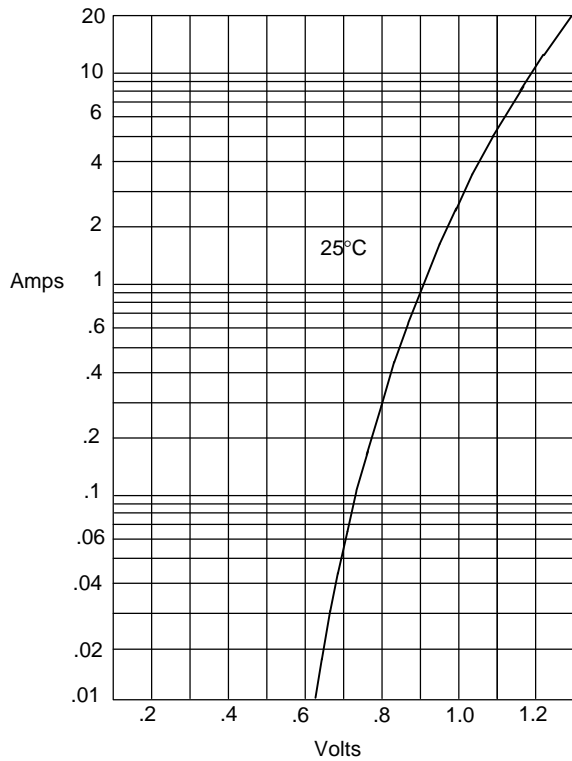
R-3



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	---	

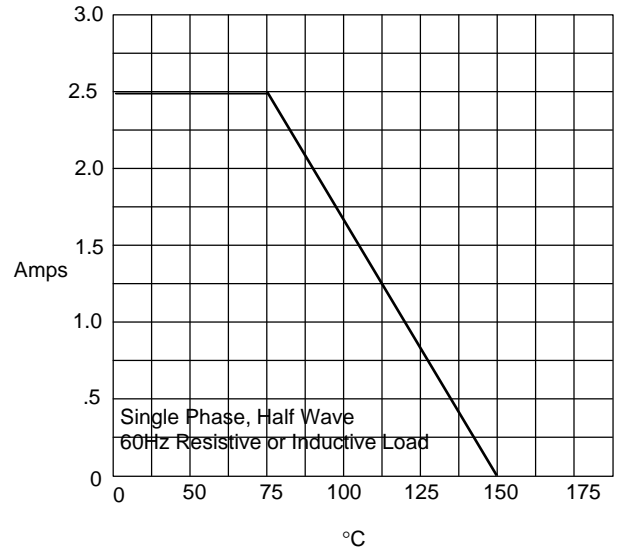
RL251 thru RL257

Figure 1
Typical Forward Characteristics



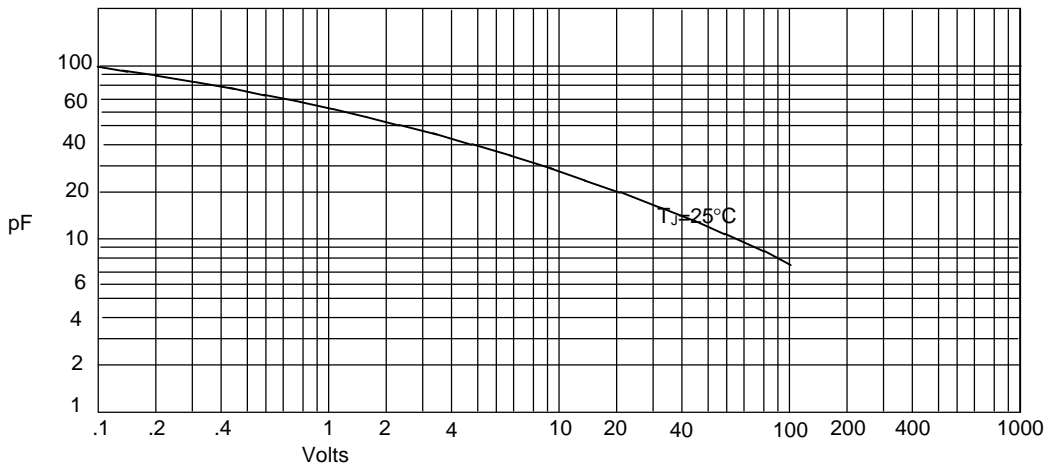
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



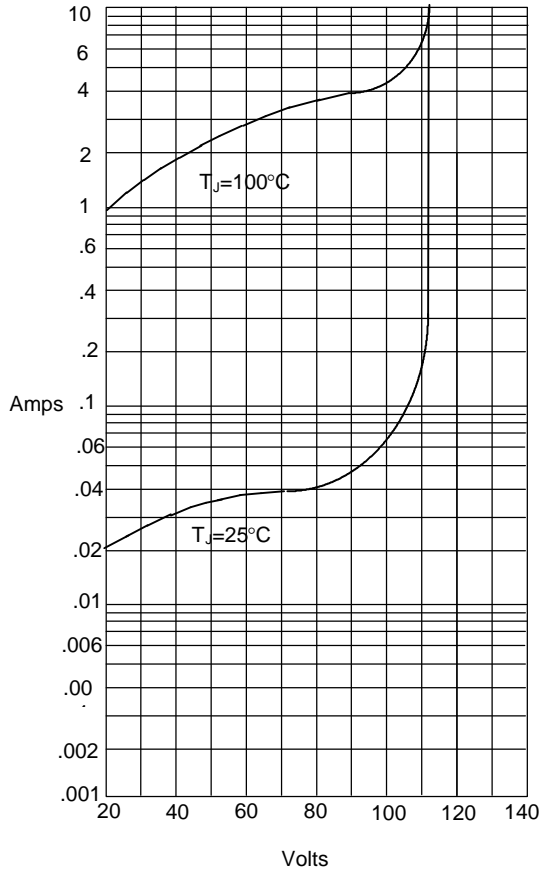
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



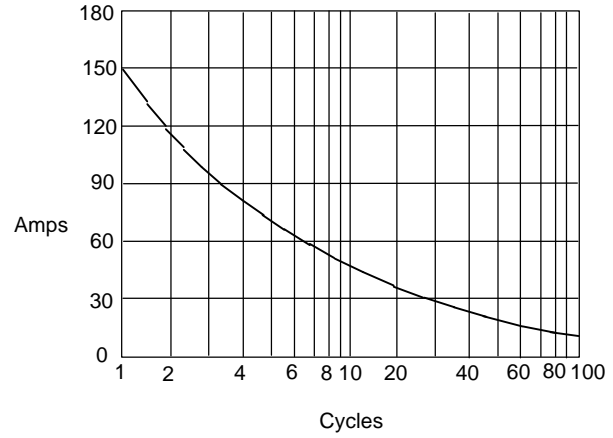
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Current - 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



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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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