



Micro Commercial Components

Micro Commercial Components  
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RS401L

THRU

RS407L

## Features

- Low Leakage and Low Forward Voltage
- Silver Plated Copper Leads
- Any Mounting Position
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

## Maximum Ratings

- Operating Temperature(T<sub>j</sub>): -55°C to +125°C
- Storage Temperature(T<sub>stg</sub>): -55°C to +150°C
- Typical Thermal Resistance per leg (R<sub>thja</sub>): 19°C/W.
- Typical Thermal Resistance per leg (R<sub>thjL</sub>): 2.4°C/W.

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS401L	RS401L	50V	35V	50V
RS402L	RS402L	100V	70V	100V
RS403L	RS403L	200V	140V	200V
RS404L	RS404L	400V	280V	400V
RS405L	RS405L	600V	420V	600V
RS406L	RS406L	800V	560V	800V
RS407L	RS407L	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

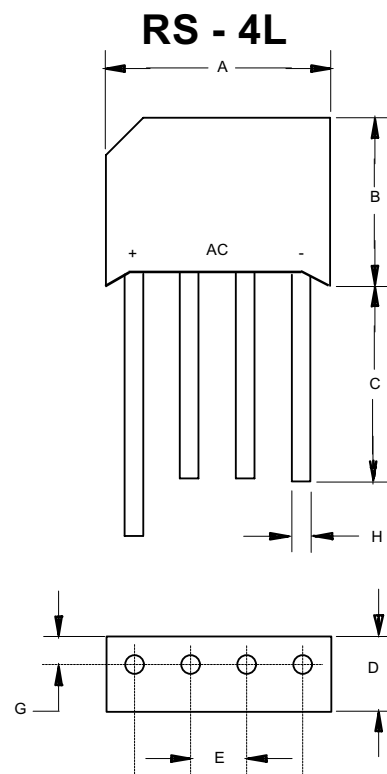
Average Forward Current	I <sub>F(AV)</sub>	4.0A	T <sub>A</sub> = 50°C
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 3.0A; T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10µA 1.0mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C

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

4 Amp Single Phase

Bridge Rectifier

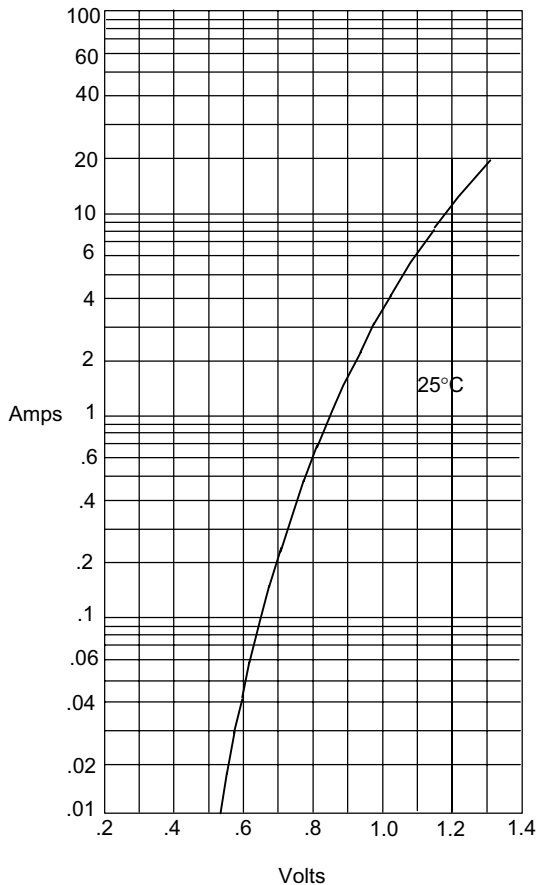
50 to 1000 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.728	.768	18.50	19.50	
B	.600	.640	15.20	16.30	
C	.750	---	19.00	---	
D	.236	.256	6.00	6.50	
E	.180	.220	4.60	5.60	
G	-----	.083	-----	2.10	
H	.048	.052	1.20	1.30	

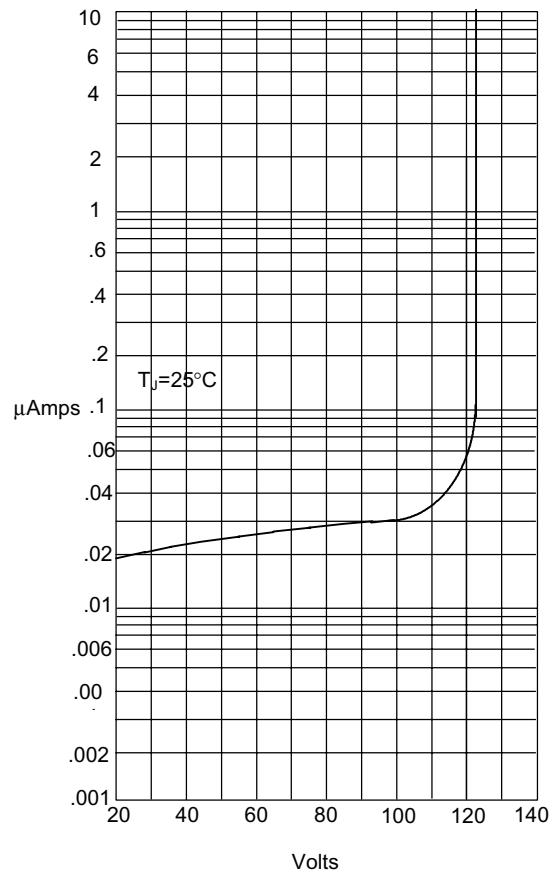
## RS401L thru RS407L

Figure 1  
Typical Forward Characteristics



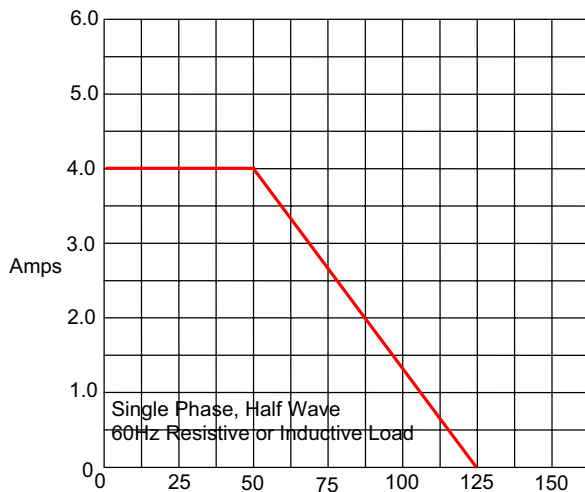
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



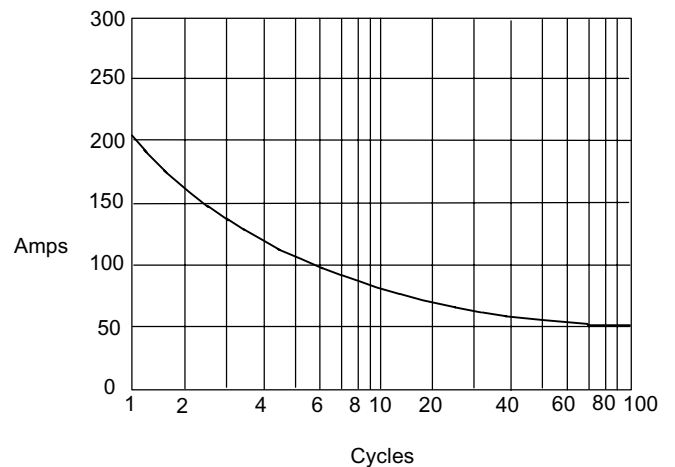
Instantaneous Reverse Leakage Current - MicroAmperes *versus*  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3  
Forward Derating Curve



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

Figure 4  
Peak Forward Surge Current



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

## Ordering Information

Device	Packing
(Part Number)-BP	Bulk;300pcs/Box

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