

RS401L THRU RS407L

Features

- Low Leakage
- Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads
- Surge Overload Rating Of 200 Amps

4 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Maximum Ratings

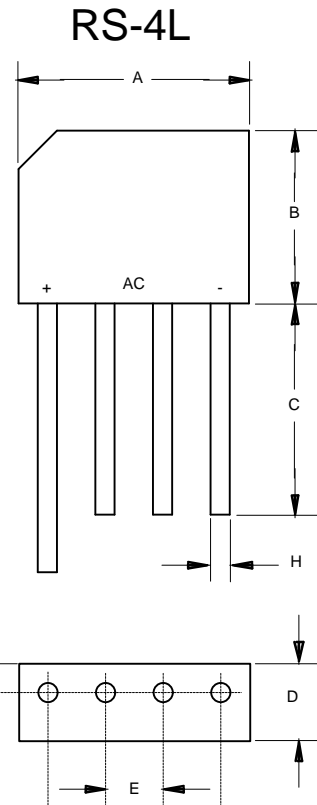
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Microsemi 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	$I_{F(AV)}$	4.0A	$T_J = 50^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.0V	$I_{FM} = 4.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10µA 1.0mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

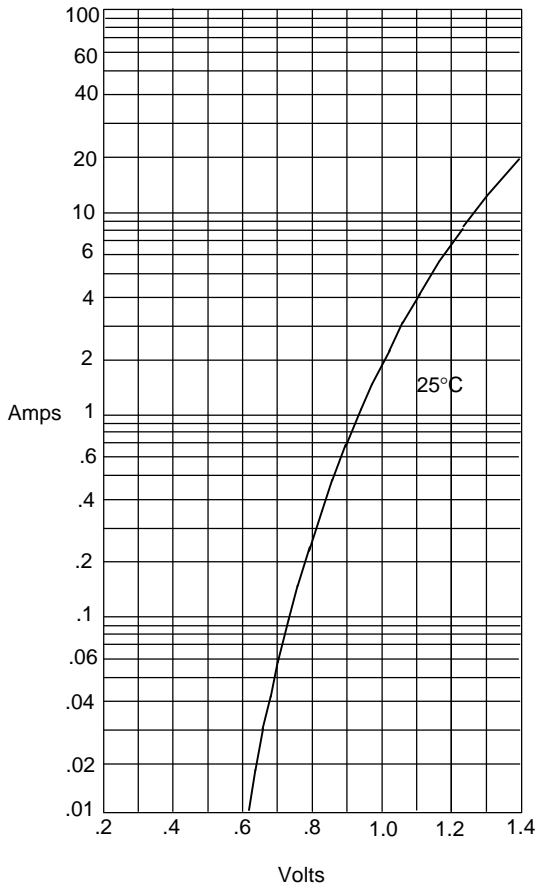
*Pulse test: Pulse width 300 µsec, Duty cycle 1%



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.730	.770	18.50	19.50	
B	.608	.632	15.40	16.00	
C	.750	---	19.00	---	
D	.245	.257	6.20	6.50	
E	.182	.221	4.60	5.60	3 PL
G	.059	.079	1.50	2.00	
H	.051	---	1.30	---	TYP

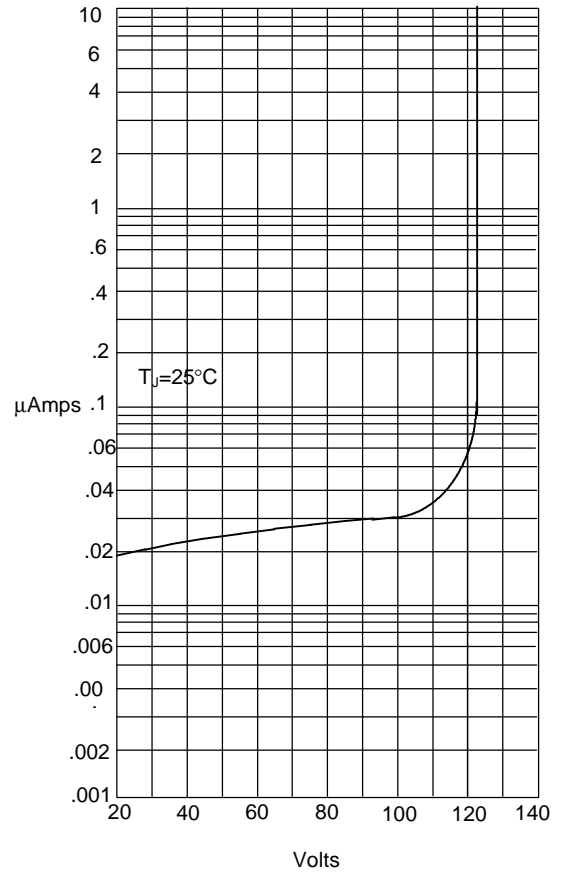
RS401L thru RS407L

Figure 1
Typical Forward Characteristics



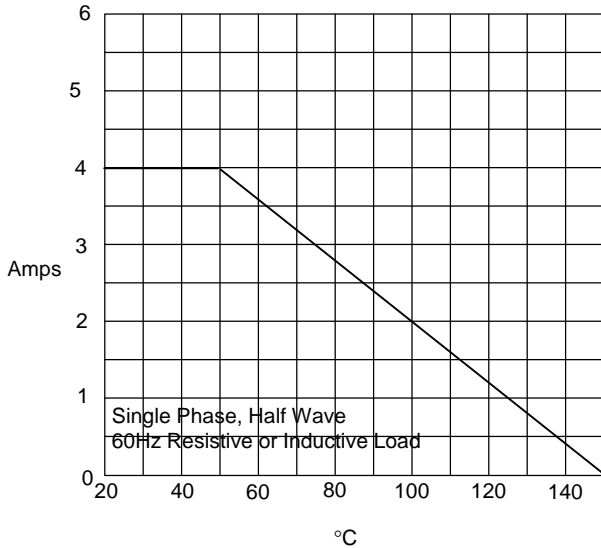
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



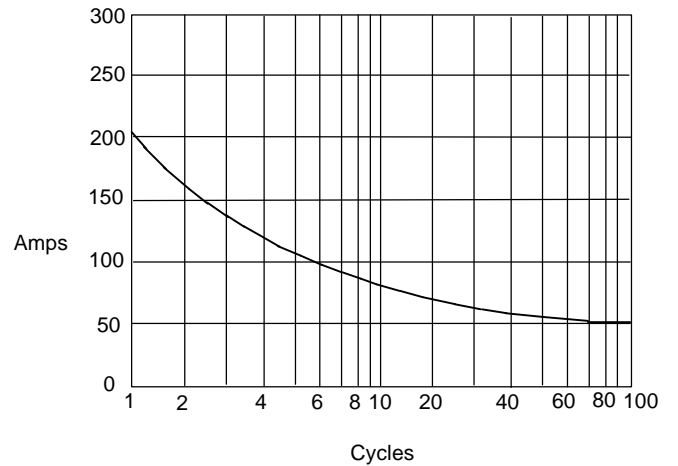
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Peak Forward Surge Current



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