

RS401L - RS407L

6.0A BRIDGE RECTIFIER

Features and Benefits

- Plastic Package has UL Flammability Classification 94V-0
- Surge Overload Rating of 200A Peak
- Ideal for Printed Circuit Board
- High Reliability and Low Leakage
- Rating to 1000V PIV
- UL Recognized Under Component Index, File #E94661
- Lead Free Finish, RoHS Compliant (Date Code 0514+)
 (Note 1)

Mechanical Data

- Case: RS-4L, Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Weight: 5.6 grams (approximate)

Ordering Information (Note 2)

Part Number	Case	Packaging 0.5K Bulk			
RS401L	RS-4L				
RS402L	RS-4L	0.5K Bulk			
RS403L	RS-4L	0.5K Bulk			
RS404L	RS-4L	0.5K Bulk			
RS405L	RS-4L	0.5K Bulk			
RS406L	RS-4L	0.5K Bulk			
RS407L	RS-4L	0.5K Bulk			

Notes:

1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2). All applicable RoHS exemptions applied. 2. For Packaging Details, go to our website at http://www.diodes.com.

Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

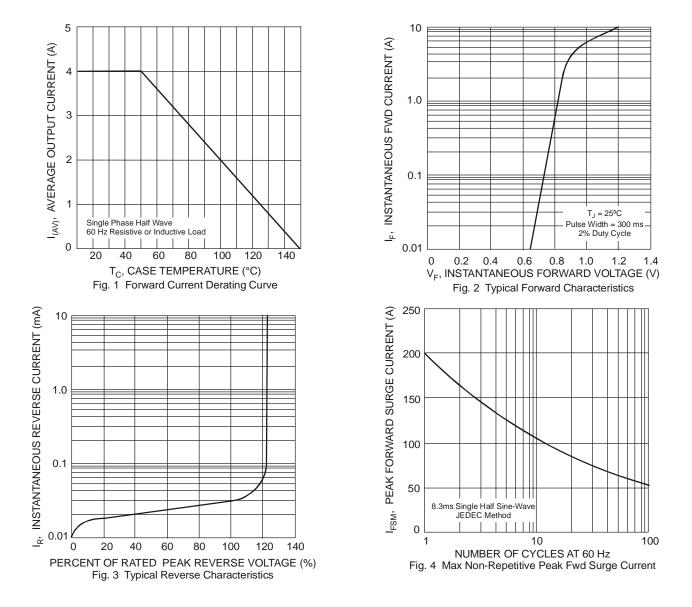
Single phase, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

Characteristic		Symbol	RS 401L	RS 402L	RS 403L	RS 404L	RS 405L	RS 406L	RS 407L	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RSM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ $T_A = 50^{\circ}C$		I _(AV)	4.0					А		
Peak Forward Surge Current, 8.3ms Half Sine-Wave Superimposed on Rate Load		I _{FSM}	200					А		
Maximum Forward Voltage at 3.0A		VF	1.0					V		
Maximum DC Reverse Current at	@T _A = 25°C		10							μA
Rated DC Blocking Voltage	@T _C = 100°C	I _R	1.0							mA
I ² t Rating for Fusing (t < 8.3ms)		l ² t	166					A ² s		
Operating Temperature Range		TJ	-55 TO +150						°C	
Storage Temperature Range		T _{STG}	-55 TO +150						°C	

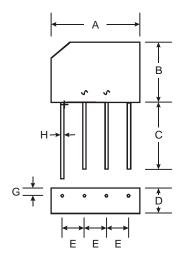


DISCONTINUED – PLEASE USE GBU4005 – GBU410

RS401L - RS407L



Package Outline Dimensions



RS-4L					
Dim	Min	Max			
Α	18.5	19.5			
В	15.4	16.0			
С	19.0	-			
D	6.2	6.5			
E	4.6	5.6			
G	1.5	2.0			
Н	1.3 Typical				
All Dimensions in mm					



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