

RS401L THRU RS407L

Single-Phase Glass Passivated Bridge Rectifiers

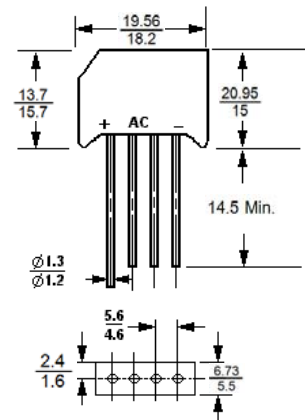
Reverse Voltage - 50 to 1000 V

Forward Current - 4 A

Features

- Ideal for printed circuit board
- High surge current capability
- Mounting position: Any

RS-4L



Dimensions in mm

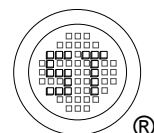
Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbols	RS 401L	RS 402L	RS 403L	RS 404L	RS 405L	RS 406L	RS 407L	Units
	Marking	RS 401L	RS 402L	RS 403L	RS 404L	RS 405L	RS 406L	RS 407L	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	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 Output Current at $T_a = 50^\circ\text{C}$	$I_{F(AV)}$	4							A
Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	120							A
Maximum Forward Voltage Drop per Bridge Element at 4 A DC	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	I_R	10 1							μA mA
Typical junction Capacitance ¹⁾	C_j	40							pF
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	30							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{Sig}	-55 to +150							$^\circ\text{C}$

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V .



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