

# RS401L THRU RS407L

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIERS

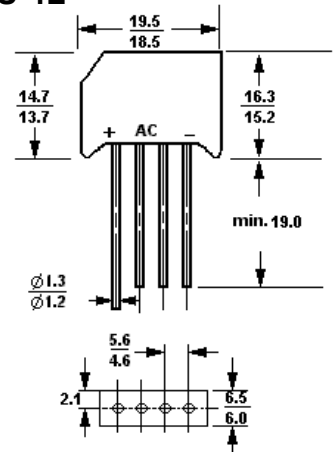
Reverse Voltage – 50 to 1000 Volts

Forward Current – 4.0 Amperes

### Features

- Ideal for printed circuit board
- Surge overload rating: 200 amperes peak
- Mounting position: Any
- Weight: 4.8 grams
- Molded structure

### RS-4L



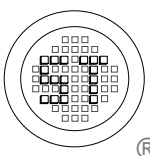
Dimensions in mm

### 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%.

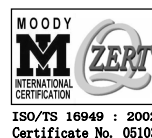
	Symbols	RS 401L	RS 402L	RS 403L	RS 404L	RS 405L	RS 406L	RS 407L	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward output current at $T_A = 75^\circ C$	$I_O$	4							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200.0							Amps
Maximum forward voltage drop per bridge element at 4A DC	$V_F$	1							Volts
Typical junction Capacitance (Note)	$C_J$	40							pF
Maximum reverse current at rated DC blocking voltage per element	@ $T_A = 25^\circ C$	10							$\mu$ Amps
	@ $T_A = 100^\circ C$	1							mAmps
Operating and storage temperature range	$T_J, T_S$	-55 to +150							$^\circ C$

Notes: (1) Measured at 1 MHz and applied reverse voltage of 4volts.



## SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001  
Certificate No. 7116

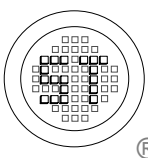
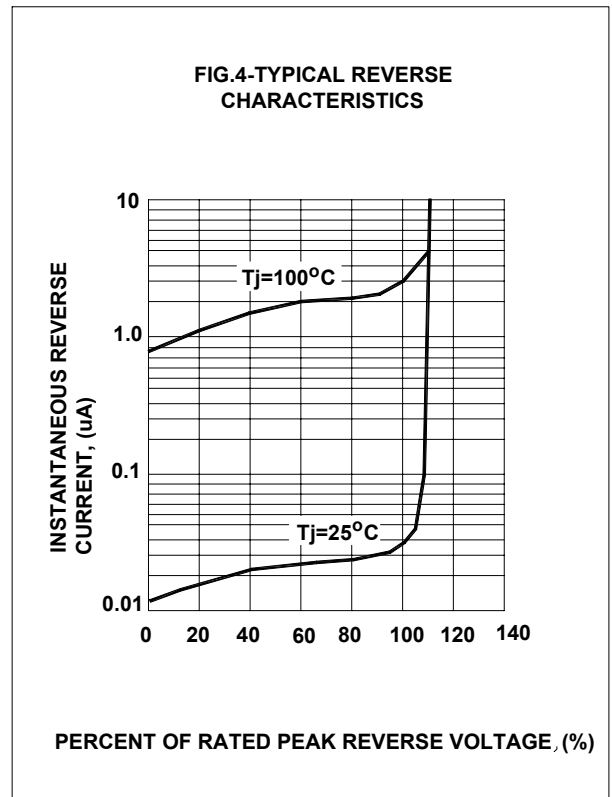
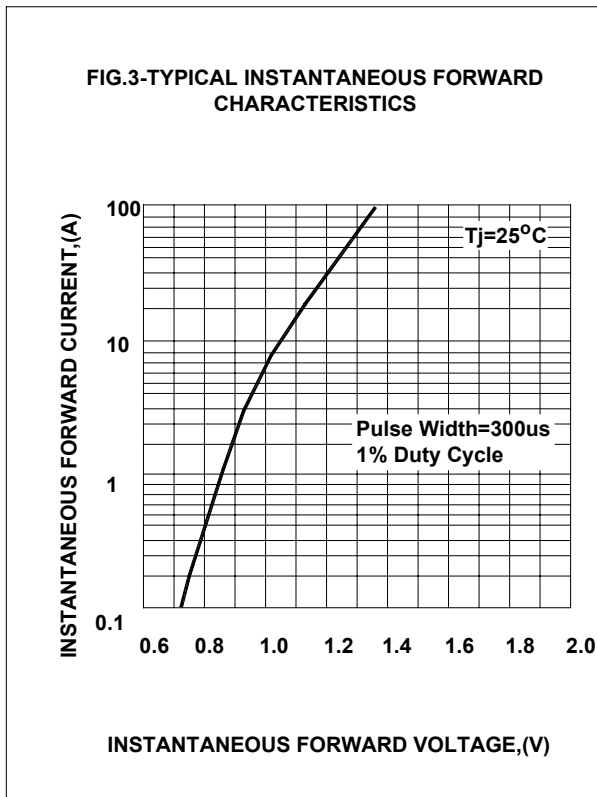
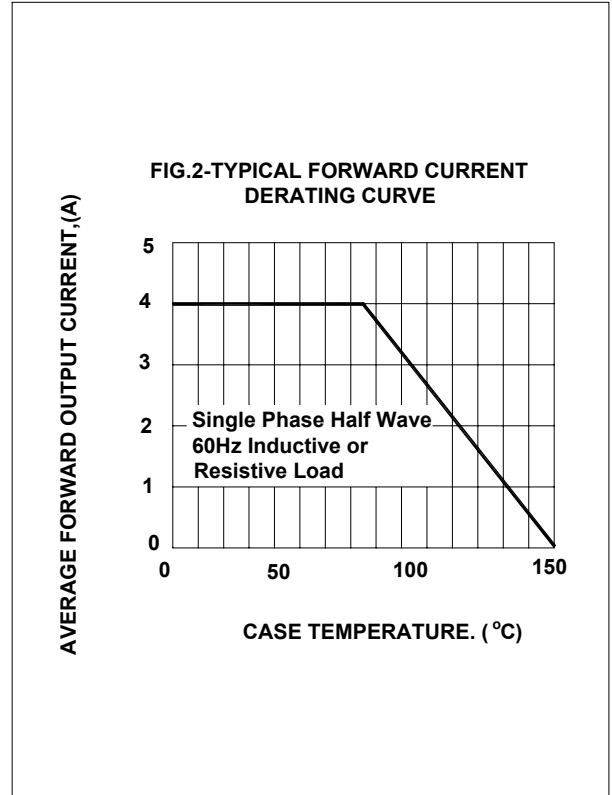
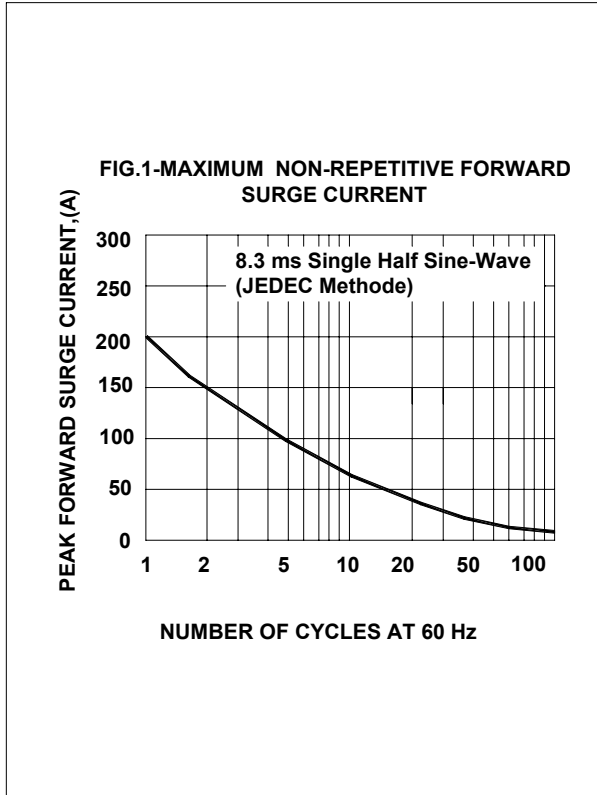


ISO 9001 : 2000  
Certificate No. 5587-1999-0007-001

Dated : 23/06/2003

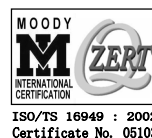
# RS401L THRU RS407L

## RATINGS AND CHARACTERISTIC CURVES (RS401L THRU RS407L)



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