

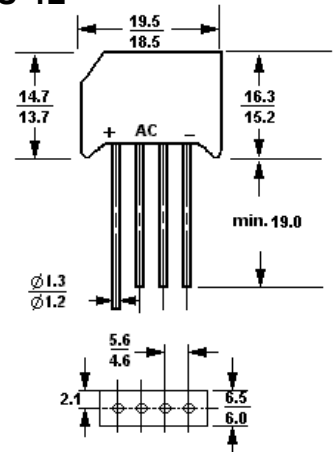
RS401L THRU RS407L

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIERS

Reverse Voltage – 50 to 1000 Volts

Forward Current – 4.0 Amperes

RS-4L



Dimensions in mm

Features

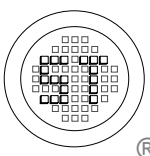
- Ideal for printed circuit board
- Surge overload rating: 200 amperes peak
- Mounting position: Any
- Weight: 4.8 grams
- Molded structure

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%.

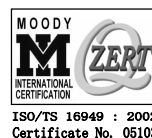
	Symbols	RS 401L	RS 402L	RS 403L	RS 404L	RS 405L	RS 406L	RS 407L	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward output current at $T_A = 75^\circ\text{C}$	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	@ $T_A = 25^\circ\text{C}$	10							μAmps
	@ $T_A = 100^\circ\text{C}$	1							mAmps
Operating and storage temperature range	T_J, T_S	-55 to +150							$^\circ\text{C}$

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

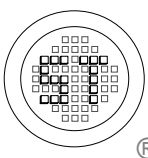
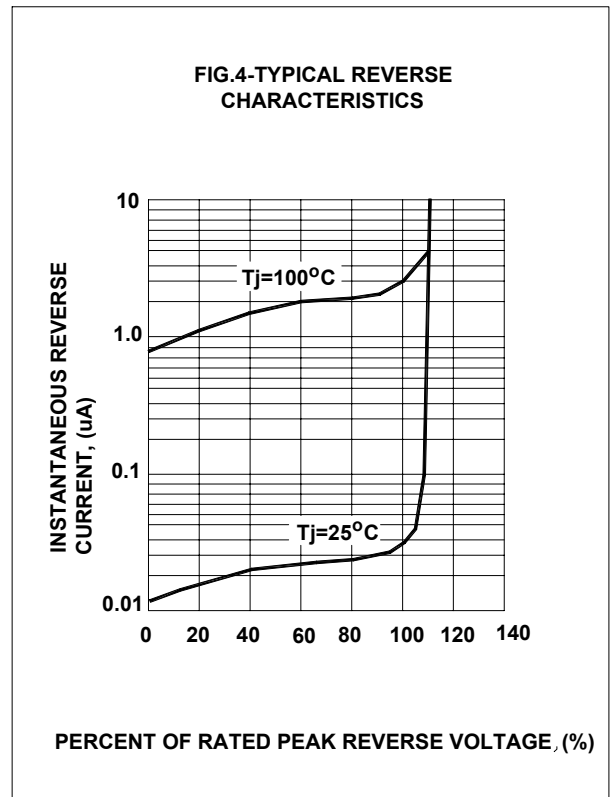
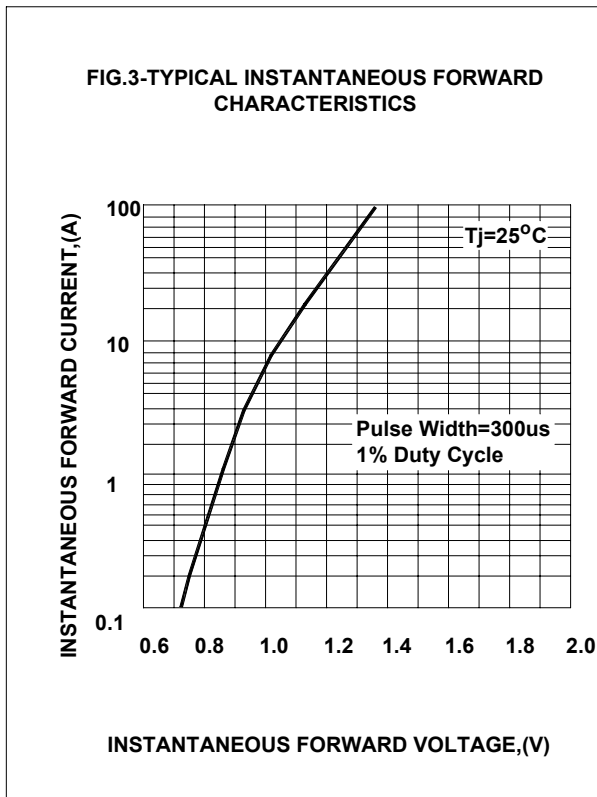
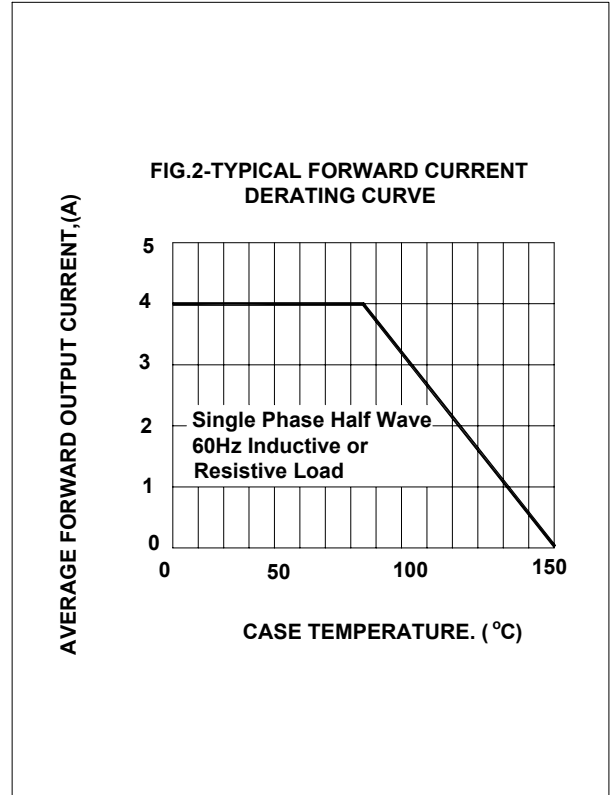
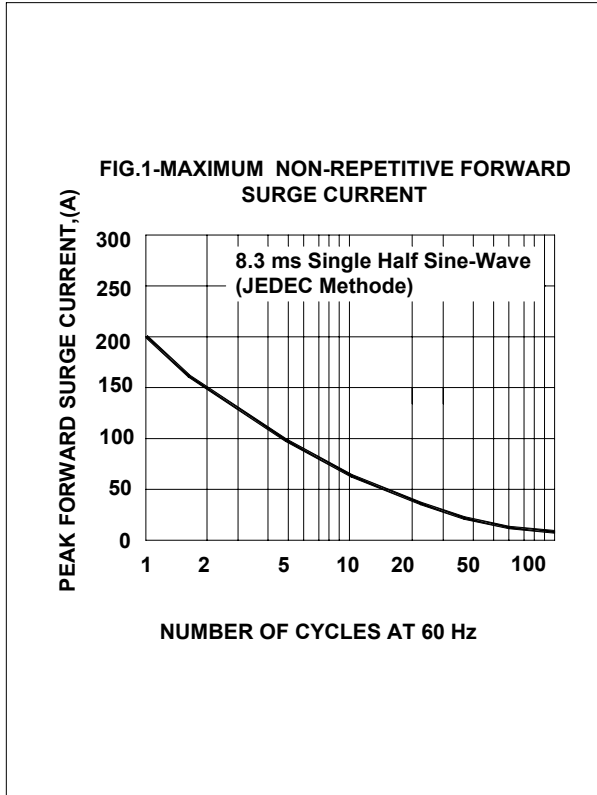


ISO 9001 : 2000
Certificate No. 5587-1999-0007-001

Dated : 23/06/2003

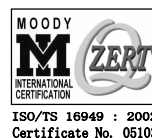
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RATINGS AND CHARACTERISTIC CURVES (RS401L THRU RS407L)



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Certificate No. 558-199-000-001

Dated : 23/06/2003