

RS401M THRU RS407M

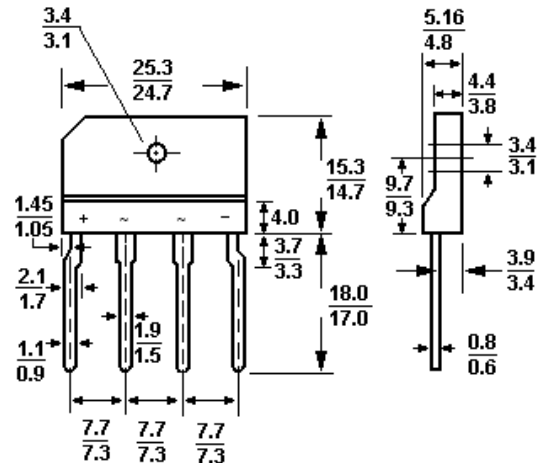
SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIERS

Voltage Range – 50 to 1000 Volts

Current – 4.0 Amperes

Features

- Ideal for printed circuit board
- Surge overload rating: 150 A peak



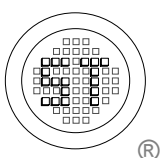
Dimensions in mm

Maximum Ratings and Electrical 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%.

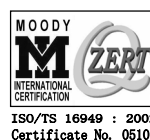
	Symbols	RS 401M	RS 402M	RS 403M	RS 404M	RS 405M	RS 406M	RS 407M	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output current at $T_C = 100^\circ\text{C}$	I_O	4.0							A
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150							A
Maximum forward voltage drop per bridge element at 4.0A DC	V_F	1.1							V
Maximum reverse current at rated DC blocking voltage per element	I_R	5.0 0.5							μA mA
Typical junction capacitance (note)	C_J	40							pF
Operating temperature range	T_J	-55 to +150							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note: Measured at 1MHz and applied reverse voltage of 4.0 volts



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. 550-199-002-01

Dated : 21/05/2003

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FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

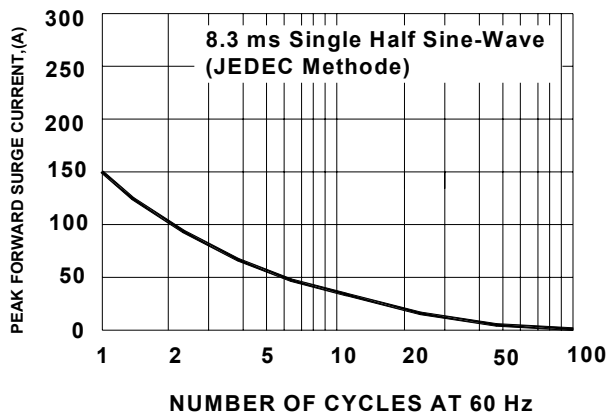


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

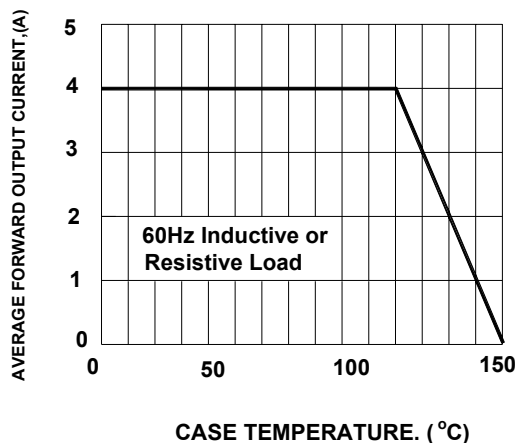


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

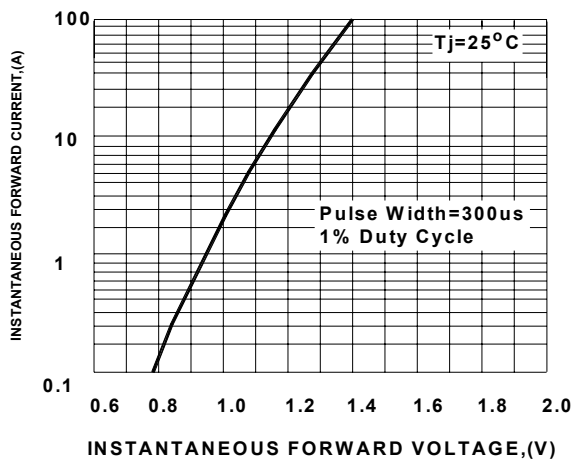
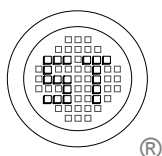
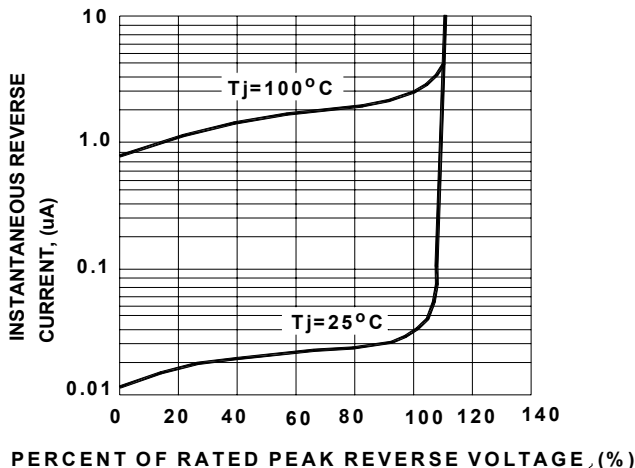
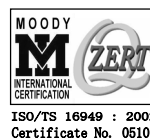


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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