

RS401 THRU RS407

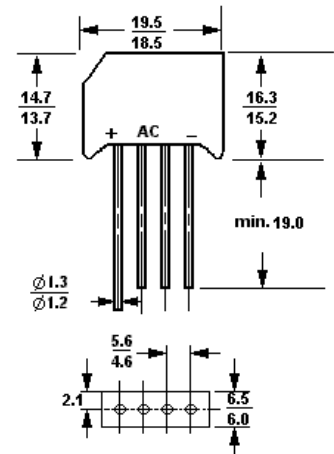
SINGLE-PHASE BRIDGE RECTIFIER

Voltage Range – 50 to 1000 Volts

Current – 4.0 Amperes

Features

- Ideal for printed circuit board
- Low forward voltage
- Low leakage current
- Polarity: marked on body
- Mounting position: Any
- Weight: 4.8 grams

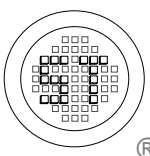


Dimensions in mm

Absolute Maximum Ratings and Characteristics

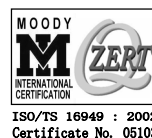
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	RS 401	RS 402	RS 403	RS 404	RS 405	RS 406	RS 407	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{CD}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_A = 50^\circ\text{C}$	I_O	4							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200							Amps
Maximum forward voltage drop per bridge element at 4A DC	V_F	1							Volts
Maximum reverse current at rated DC blocking voltage per element	@ $T_A = 25^\circ\text{C}$	10							μAmps
	@ $T_A = 100^\circ\text{C}$	500							mAmps
Operating temperature range	T_J	-65 to +125							$^\circ\text{C}$
Storage temperature range	T_S	-65 to +150							$^\circ\text{C}$



SEMTECH ELECTRONICS LTD.

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ISO/TS 16949 : 2002
Certificate No. 05103



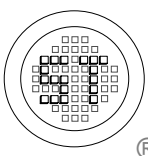
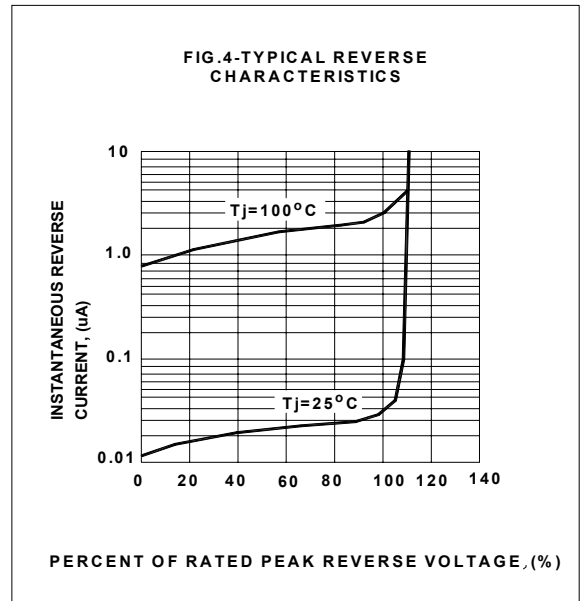
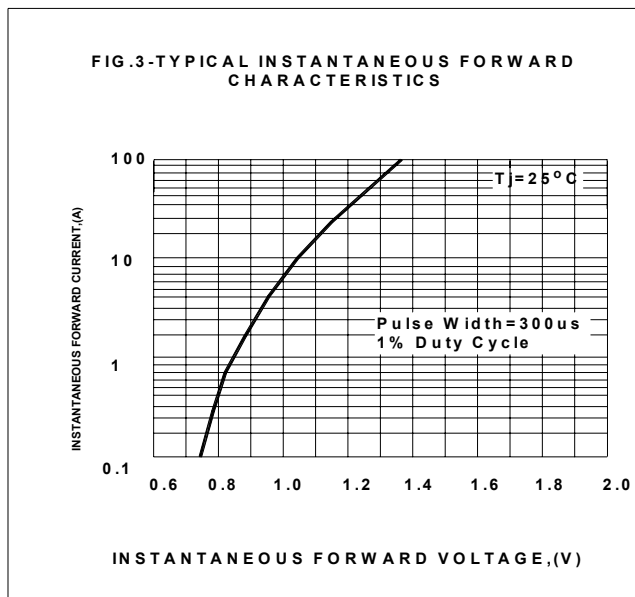
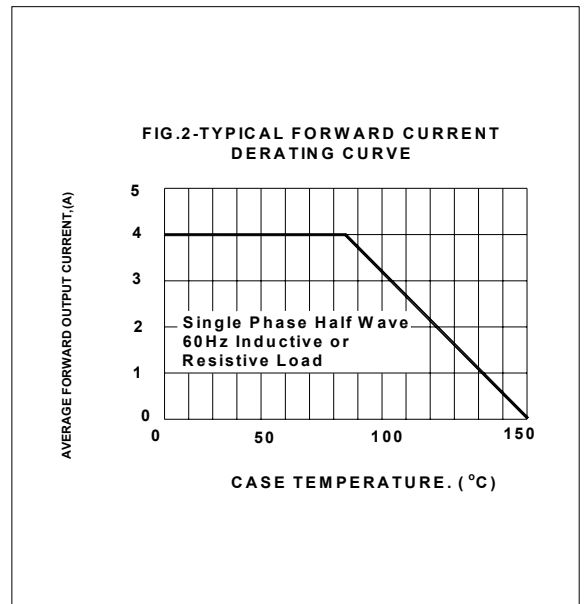
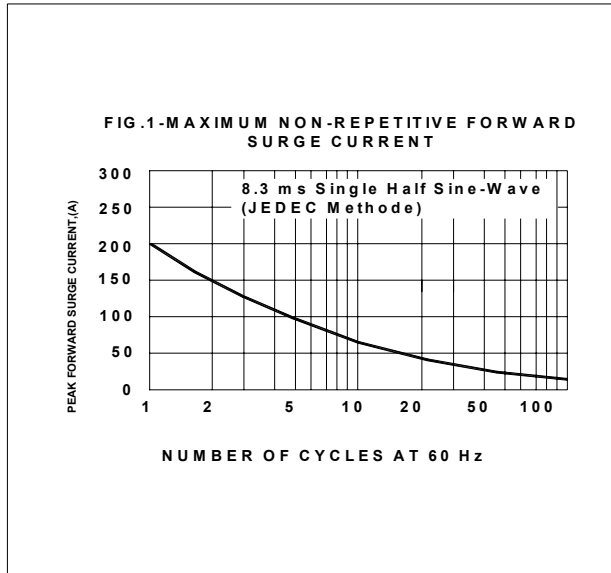
ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 558-199-02-01

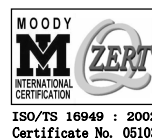
Dated : 23/06/2004

RATING AND CHARACTERISTICS CURVES (RS401 THRU RS407)



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Dated : 23/06/2004