

# RS401M THRU RS407M

## Single-phase Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 4 A

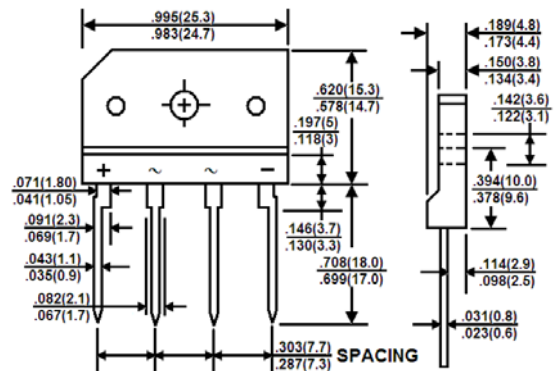
RS-4M

### Features

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

### Mechanical Data

- Case: RS-4M



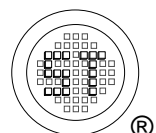
Dimensions in mm

### Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	RS401M	RS402M	RS403M	RS404M	RS405M	RS406M	RS407M	Units
	Marking	RS401M	RS402M	RS403M	RS404M	RS405M	RS406M	RS407M	-
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 Rectified Current at $T_C = 100^\circ\text{C}$	$I_{F(AV)}$	4							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	150							A
Maximum Forward Voltage Drop per Bridge Element at 4 A DC	$V_F$	1.1							V
Maximum Reverse Current at Rated at $T_A = 25^\circ\text{C}$ DC Blocking Voltage per Element at $T_A = 125^\circ\text{C}$	$I_R$	5 500							$\mu\text{A}$
Typical Junction Capacitance <sup>1)</sup>	$C_J$	40							pF
Operating Temperature Range	$T_J$	- 55 to + 150							$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150							$^\circ\text{C}$

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V.



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FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

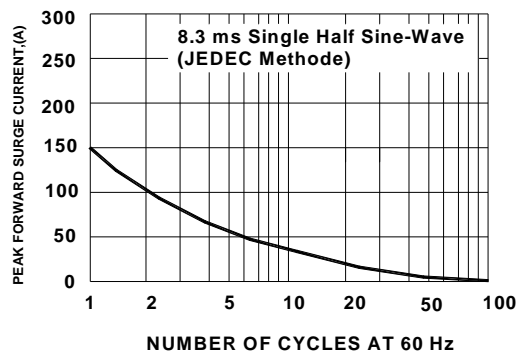


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

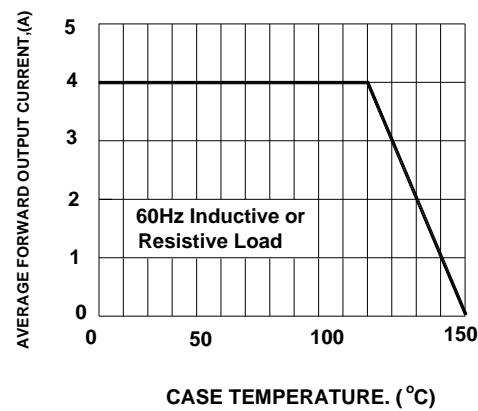


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

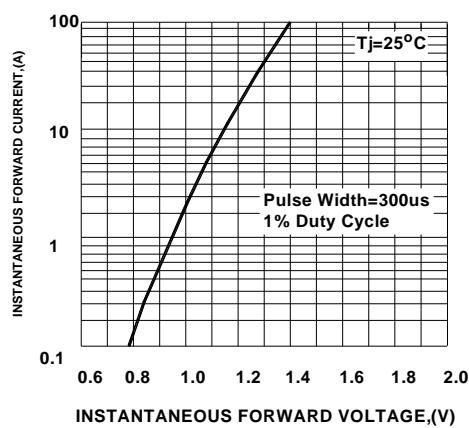


FIG.4-TYPICAL REVERSE CHARACTERISTICS

