# **RS401M THRU RS407M**

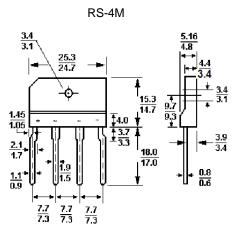
### Single-phase Glass Passivated Bridge Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 4 A

#### 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
Maximum Recurrent PeakReverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{\text{RMS}}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{\text{DC}}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T <sub>C</sub> =100 °C	I <sub>F(AV)</sub>	4							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	150							A
Maximum Forward Voltage Drop per Bridge Element at 4 A DC	$V_{F}$	1.1							V
$\begin{array}{l} \mbox{Maximum Reverse Current at Rated at $T_A$ = 25 °C$} \\ \mbox{DC Blocking Voltage per Element} & \mbox{at $T_A$ = 125 °C$} \end{array}$	I <sub>R</sub>	5 500							μA
Typical Junction Capacitance 1)	CJ	40							pF
Operating Temperature Range	Τj	- 55 to + 150							°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150							°C

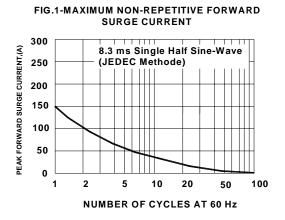
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V.



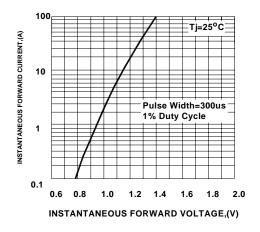
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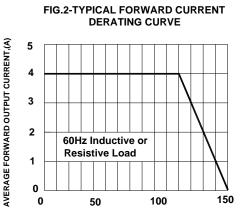


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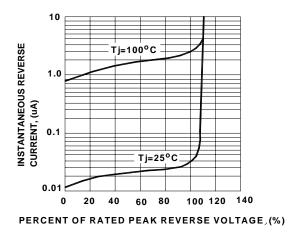






CASE TEMPERATURE. (°C)

FIG.4-TYPICAL REVERSE CHARACTERISTICS





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