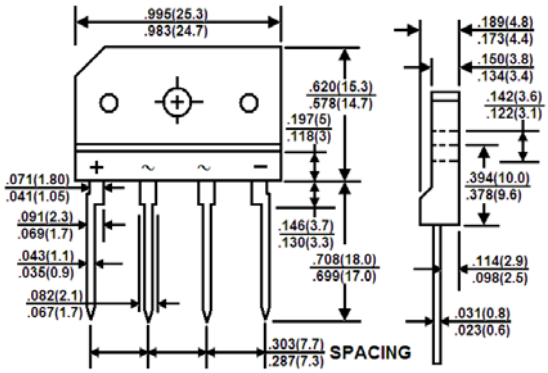
RS401M THRU RS407M

Single-phase Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 V
Forward Current - 4 A

RS-4M



Dimensions in mm

Features

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

Mechanical Data

- **Case:** RS-4M

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 PeakReverse 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 °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 °C DC Blocking Voltage per Element at T_A = 125 °C	I_R	5 500							μA
Typical Junction Capacitance [1]	C_J	40							pF
Operating Temperature Range	T_j	- 55 to + 150							°C
Storage Temperature Range	T_{stg}	- 55 to + 150							°C

[1] Measured at 1 MHz and applied reverse voltage of 4 V.

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

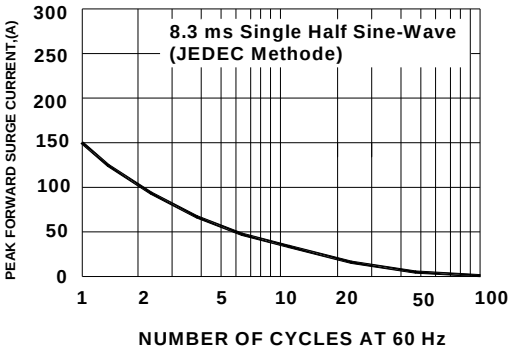


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

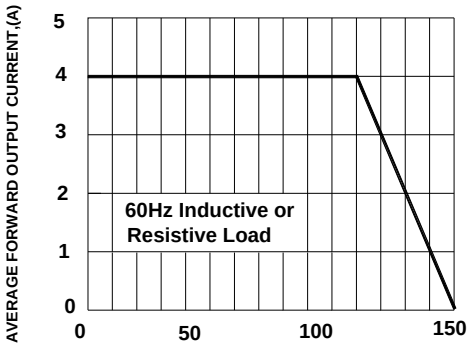


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

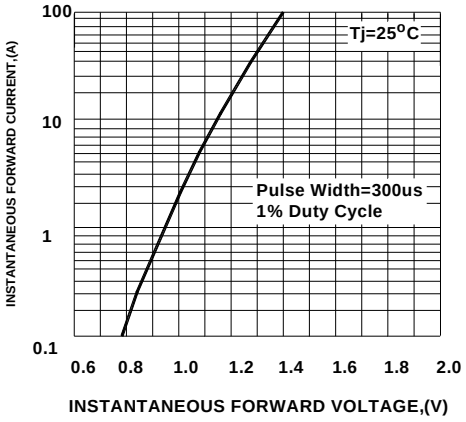


FIG.4-TYPICAL REVERSE CHARACTERISTICS