

RS401M THRU RS407M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes

FEATURES

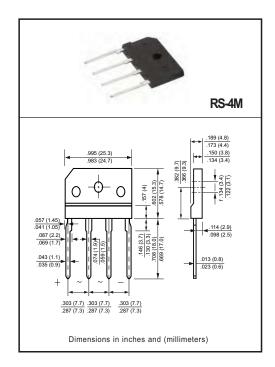
- * Ideal for printed circuit board
- * Surge overload rating: 130 amperes peak
- * Mounting position: Any

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Epoxy: UL listed the recognized component,file #94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

| RATINGS | SYMBOL | RS401M | RS402M | RS403M | RS404M | RS405M | RS406M | RS407M | 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 _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at T _A = 50°C | lo | 4.0 | | | | | Amps | | |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 130 | | | | | Amps | | |
| Current Squared Time | l²t | 70 | | | | | A ² S | | |
| Typical Thermal Resistance (Note 1) | R _{UC} | 6.0 | | | | | | | °C/W |
| Typical Thermal Nesistance (Note 1) | $R_{\theta JA}$ | 26 | | | | | | | |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55 to + 150 | | | | ۰C | | | |

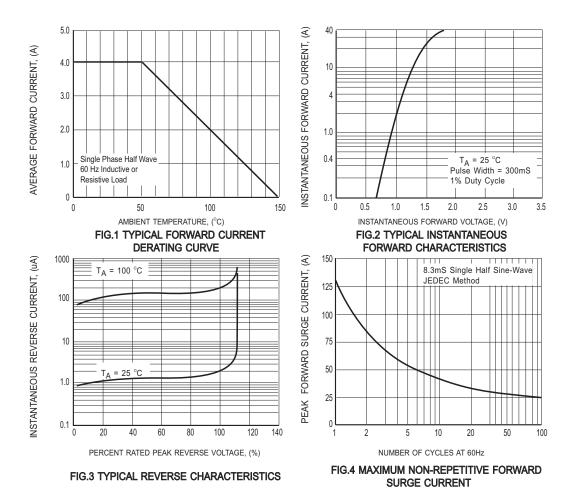
$\textbf{ELECTRICAL CHARACTERISTICS}(@T_A = 25 \ ^{\circ}\text{C unless otherwise noted})$

| CHARACTERISTICS | | SYMBOL | RS401M | RS402M | RS403M | RS404M | RS405M | RS406M | RS407M | UNITS |
|----------------------------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Vo | V _F | 1.1 | | | | | | Volts | | |
| Maximum DC Reverse Current | @T _A = 25°C | la. | | | | 2.0 | | | | |
| at Rated DC Blocking Voltage | @T _A = 100°C | IR IR | | | | 200 | | | | uAmps |

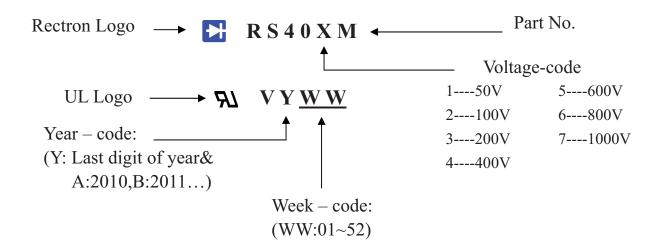
NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2014-12 REV: O

RATING AND CHARACTERISTICS CURVES (RS401M THRU RS407M)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE (mm) | CARTON SIZE (mm) | EA PER CARTON | WEIGHT(Kg) |
|------------|--------------|------------|---------------------|---------------------|---------------|------------|
| RS-4M/-10M | -C | 900 | 540*118*118 | 560*259*144 | 1,800 | 12.82 |



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Rectron:

<u>RS404M RS403M RS402M RS407M RS406M RS406M RS401M RS405M RS403M-C RS405M-C RS406M-C RS406M-C RS402M-C </u>