

Voltage Range - 50 to 1000 V Forward Current - 4 Amperes

SINGLE PHASE BRIDGE RECTIFIER

FEATURES

- Low cost
- This series is UL recognized
- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260 °C/10 second,
 0.375" (9.5mm) lead length at 5 lbs. (2.3kg) tension.

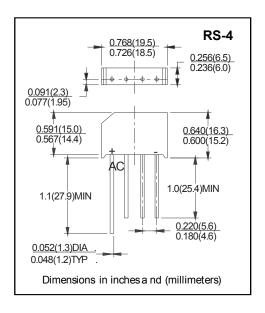
MECHANICAL DATA

• Case: Transfer molded plastic

Terminal: Lead solderable per MIL-STD-202E method 208C

Mounting: Any

• Weight: 0.22 ounce, 6.21 gram



MAXIMUM RATINGS AND ELECTRICAL 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 | RS401 | RS402 | RS403 | RS404 | RS405 | RS406 | RS407 | UNITS |
|--|--------------------------------|-----------------------|-------------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| Maximum Repetitive 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 Output Current, at | T _C =50 °C (Note 2) | | Ţ | 4.0 | | | | | | | A |
| | T _A =50 | °C (Note 3) | $I_{(AV)}$ | 3.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | | | I_{FSM} | 150 | | | | | | | Amps |
| Rating for Fusing (t<8.3ms) | | | I ² t | 93 | | | | | | | A^2s |
| Maximum Instantaneous Forward Voltage Drop per bridge element at 4.0A | | | $V_{\rm F}$ | 1.0 | | | | | | | Volts |
| Maximum DC Reverse Current at DC blocking voltage per element | rated | T _A =25°C | Ţ | 5 | | | | | | | μAmps |
| | | T _A =100°C | I_R | 1.0 | | | | | | | mAmps |
| Typical Junction Capacitance (Note 1) | | | C_{J} | 55 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | | | $R_{\theta JA}$ | 20 | | | | | | | °C/W |
| Operating and Storage Temperature Range | | | T_J , T_{STG} | -65 to +150 | | | | | | | °C |

NOTES:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on 3.0"x3.0"x0.11" thick (7.5x7.5x0.3 cm) Al. plate.
- 3. P.C. Board mount with 0.5"x0.5" (12x12cm) copper pads 0.375" (9.5mm) lead length

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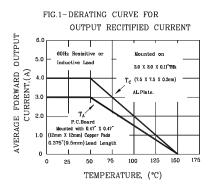
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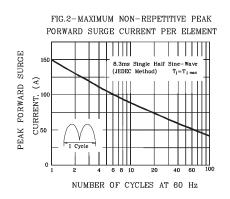


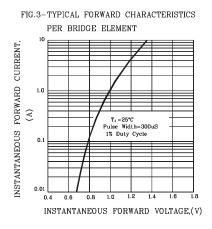
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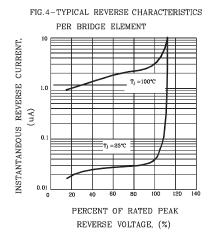
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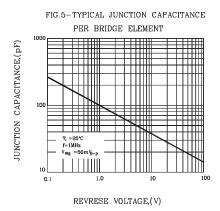
RATING AND CHARACTERISTIC CURVES RS401 - RS407











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