



# FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206



## SINGLE-PHASE BRIDGE RECTIFIER

RS401 THRU RS407

VOLTAGE RANGE  
CURRENT

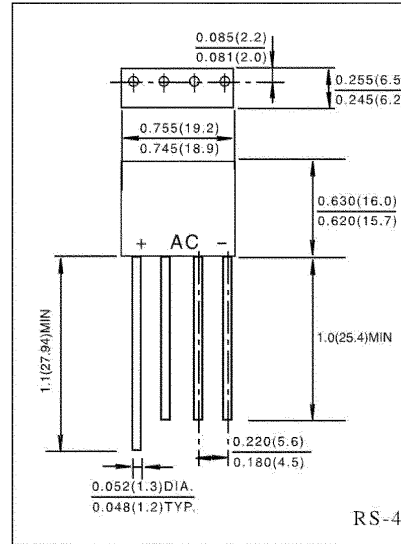
50 to 1000 Volts  
4.0 Ampere

### FEATURES

- Low cost
- This series is UL recognized under component index, file number E127707
- 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 Position: 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	UNIT
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 $T_C = 50^\circ\text{C}$ (Note2) $T_A = 50^\circ\text{C}$ (Note3)	$I_{(AV)}$	4.0							Amps
		3.0							
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	$I_{FSM}$	150							Amps
Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	93							$\text{A}^2\text{s}$
Maximum Instantaneous Forward Voltage Drop per bridge element at 4.0A	$V_F$	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage per element	$I_R$	10							$\mu\text{A}$
		1.0							mA
Typical Junction Capacitance (Note 1)	$C_j$	55							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20							$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	(-65 to +150)							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	(-65 to +150)							

### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on 3.0" X 3.0" X 0.11" thick (7.5 X 7.5 X 0.3cm) Al. plate.
3. P.C. Broad mounted with 0.5" X 0.5" (12 X 12mm) copper pads. 0.375" (9.5mm) lead length.



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**RATINGS AND CHARACTERISTIC CURVES RS401 THRU RS407**

