

FUKUCOM COMPANY LTD.

福靈の有限の公司

FLAT P, 3/F, EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD, KWUN TONG, KOWLOON, HONG KONG.
TEL: 2790-0314 FAX: 2790-0206



SINGLE-PHASE BRIDGE RECTIFIER

RS601 THUR RS607

VOLTAGE RANGE CURRENT 50 to 1000 Volts 6.0 Ampere

FEATURES

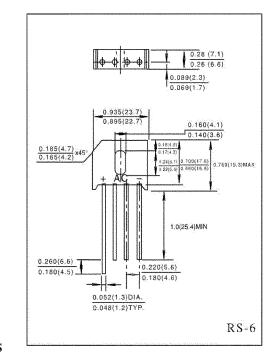
- Low cost
- This series is UL recognized under component index, file number E127707
- · High forward surge current capability
- · Ideal for printed circult board
- High temperature soldering guaranteed: 260°C/10 second, 0.375" (9.5mm) lead length at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- · Case: Transfer molded plastic
- Terminal: Lead solderable per MIL STD 202E method 208C
- Polarity: Polarity symbols marked on case.
- Mounting: Thru hole for #6 screw, 5 in,- lbs. Torqute Max.
- Weight: 0.3 ounce, 8.0 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	RS601	RS602	RS603	RS604	RS605	RS606	RS607	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	$T_C = 100^{\circ}C$	I	6.0							Amps
Rectified Output Current, at	$T_A = 40^{\circ}C$ (Note3)	I _(AV)								
Peak Forward Surge Current										
8.3ms single half sine - wave superimposed on		I_{FSM}	150							Amps
rated load (JEDEC method)										
Rating for Fusing (t<8.3ms)		I^2t	93							A^2s
Maximum Instantaneous Forward Voltage Drop		V_{F}	1.0						Volts	
per bridge element at 6.0A										
Maximum DC Reverse Current at rated $T_A = 25^{\circ}C$		I _R	10							μ A
DC blocking voltage per element $T_A = 100^{\circ}$ C			1.0							mA
Typical Junction Capacitance (Note 1)		C_{j}	105						pF	
Typical Thermal Resistance (Note 2)		$R_{\theta JC}$	4.7							°C/W
Operating Temperature Range		T_J	(-65 to +150)							°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 2.6" X 1.4" X 0.06" thick (6.3 X 3.5 X 0.15cm) Al. plate.
- 3. Unit mounted in free air, no heatsink, P.C.B. at 375" (9.5mm) lead length with. 5" X 5" (12 X 12mm) copper pads.



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RATINGS AND CHARACTERISTIC CURVES RS601 THRU RS607

FIG.1-DERATING CURVE FOR **OUTPUT RECTIFIED CURRENT**

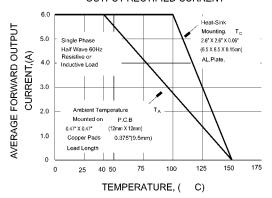


FIG.3-TYPICAL FORWARD CHARACTERISTICS

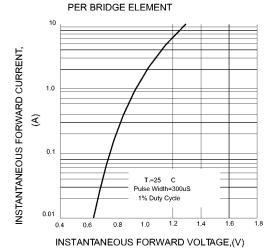
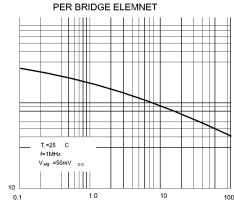


FIG.5-TYPICAL JUNCTION CAPACITANCE



JUNCTION CAPACITANCE, (pF)

REVRESE VOLTAGE,(V)

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

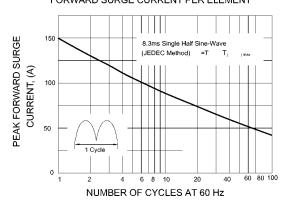
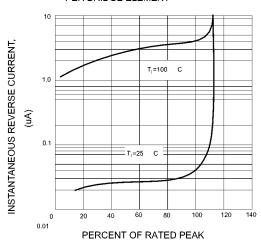


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



REVERSE VOLTAGE,(%)