

RS601 THRU RS607

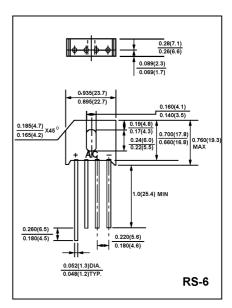
SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Ampere

FEATURES

- * Low cost
- * 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
- * Epoxy: UL94V-O rate flame retardant
- * Terminals : 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: 0.27 ounce, 7.59 gram



MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

- * Rating at 25 ambient temperature unless otherwise specified
- * Single phase, half wave. 60Hz, resistive or inductive load.
- * For capacitive load derate current by 20 %

Characteristic			Symbol	RS601	RS602	RS603	RS604	RS605	RS606	RS607	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage			V _{RRM} V _{RWM} V _{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V	
Average Rectifier Forward Current at	T _C =100 T _A =40 (Note 3)		I _{O(AV)}	6.0							А
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load			I _{FSM}	150							A
Forward Voltage (per element) (I _F =6.0 Amp)			V _{FM}	1.0							V
Peak Reverse Current at rate	ed	T _A = 25	I _R	10							uA
DC blocking voltage per elen	nent	T _A = 100		1.0							mA
I ² t Rating for Fusing(t<8.3ms)			l ² t	93							A ² s
Typical Junction Capacitance per element (Note1)			CJ	105							pF
Typical Thermal Resistance (per leg)(note 2)			$R_{\theta jc}$	4.7							°C/W
Operating and Storage Temperature Range			T」, T _{stg}	-65 to +150							

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Unit mounted on 2.6"×1.4"×0.06" thick (6.3×3.5×0.15 cm) Al. plate.

3. Unit mounted in free air, no heatsink, P.C.B. at 375"(9.5mm) lead length with. 5"×5"(12×12 mm) copper pads..

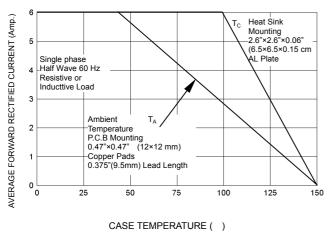
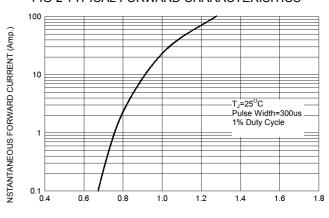


FIG-1 FORWARD CURRENT DERATING CURVE

FIG-2 TYPICAL FORWARD CHARACTERISITICS



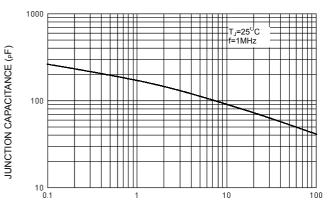
FORWARD VOLTAGE (Volts)

FIG-3 PEAK FORWARD SURGE CURRENT 200 175 FWD SURGE CURRENT (A) T_J=25^oC _Single Half Sine Wave (JEDEC Method) 150 125 100 75 50 II_{FSM}, PEAK 25 0 10 100

NUMBER OF CYCLES AT 60 Hz

1

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

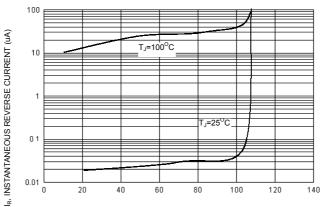


FIG-5 TYPICAL REVERSE CHARACTERISTICS

PERCENT OF RATED REVERSE VOLTAGE (%)



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