

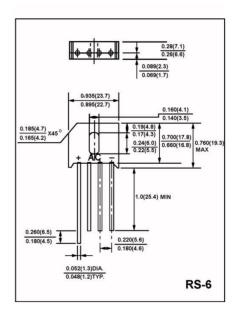
SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Ampere

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°C 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	50	100	200	400	600	800	1000	V
RMS Reverse Voltage			DC V _{R(RMS)}	35	70	140	280	420	560	700	٧
Average Rectifier Forward T _C =1			I _{O(AV)}	6.0							Α
Current at T =40°C(Note 3) Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load			I _{FSM}	6.0 150							А
Forward Voltage (per element) (I _F =6.0 Amp)			V_{FM}	1.0							V
Peak Reverse Current at rate DC blocking voltage per elem		$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	I _R				10				uA 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 _{θ jc}	4.7							°C/W
Operating and Storage Temperature Range			T_J , T_{stg}	-65 to +150							°C

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

2. Unit mounted imf@6"aif,4io b.edisthick(C38:3a5805150c5m)nA).I.edateength with. 5"×5"(12×12 mm) copper pads...





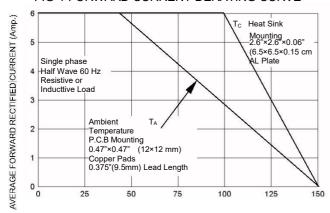
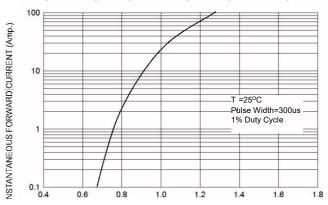


FIG-2 TYPICAL FORWARD CHARACTERISITICS



FORWARD VOLTAGE (Volts)

CASE TEMPERATURE (°C)

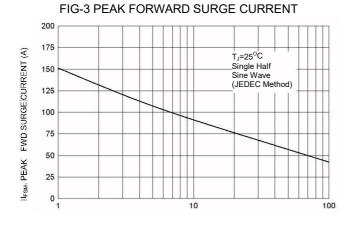
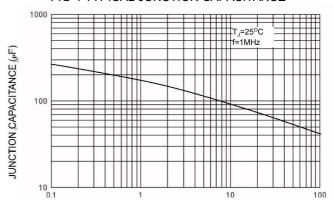


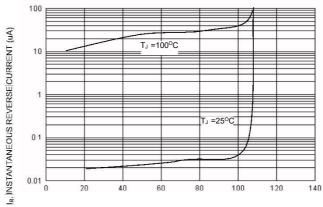
FIG-4 TYPICAL JUNCTION CAPACITANCE



NUMBER OF CYCLES AT 60 Hz

REVERSE VOLTAGE (Volts)





PERCENT OF RATED REVERSE VOLTAGE (%)