

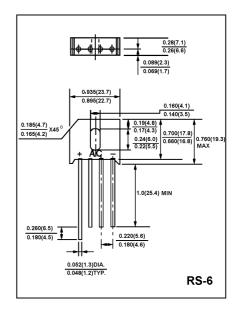
SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Ampere

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	RS801	RS802	RS803	RS804	RS805	RS806	RS807	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		I _{O(AV)}	8.0							Α
	T _A =45	(Note 3)	IO(AV)	6.0							
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load			I _{FSM}	150							А
Forward Voltage (per element) (I _F =8.0 Amp)			V _{FM}	1.0							V
Peak Reverse Current at rate		T _A = 25	I _R	10							uA
DC blocking voltage per elem	nent	T _A = 100	110	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)			С	105							pF
Typical Thermal Resistance (per leg)(note 2)			R _{θ jc}	5.0							°C/W
Operating and Storage Temperature Range			T_J , 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 3.0"×3.0"×0.11" thick (7.5×7.5×0.3 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

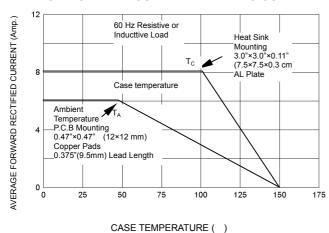
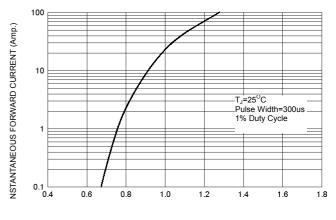
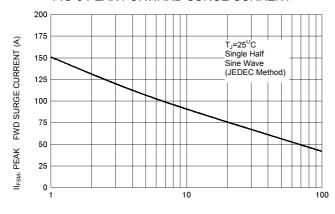


FIG-2 TYPICAL FORWARD CHARACTERISITICS



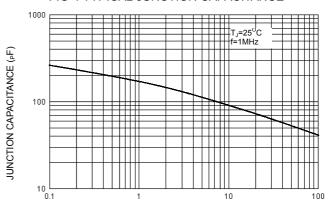
FORWARD VOLTAGE (Volts)

FIG-3 PEAK FORWARD SURGE CURRENT



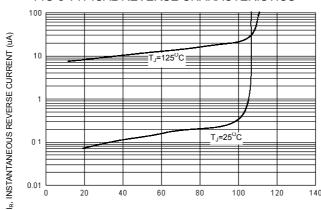
NUMBER OF CYCLES AT 60 Hz

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)