RS801~RS807

BRIDGE RECTIFIERS

VOLTAGE 50 to 1000 Volt **CURRENT** 8 Ampere

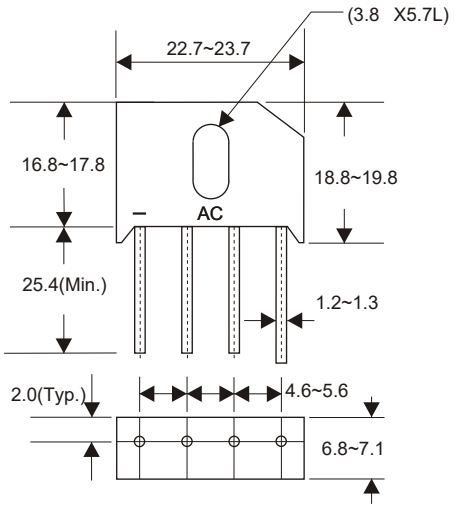
FEATURES

- Glass passivated chip junction
- Low leakage current
- Low forward voltage
- Ideal for Printed Circuit Boards
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0

RS-6 Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	RS801	RS802	RS803	RS804	RS805	RS806	RS807	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	8							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	300							A
Maximum Forward Voltage at 4.0 A	V_F	1.1							V
Maximum DC Reverse Current at T_J= 25 °C Rated DC Blocking Voltage T_J= 125 °C	I_R	10 200							μA
Thermal Resistance(Note1)	$R_{\theta JA}$	18							°C / W
Typical Junction Capacitancee(Note2)	C_J	60							pF
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:
1. Thermal resistance junction to case, mounted on 7.5 x 7.5 x 0.3cm thick AL plate.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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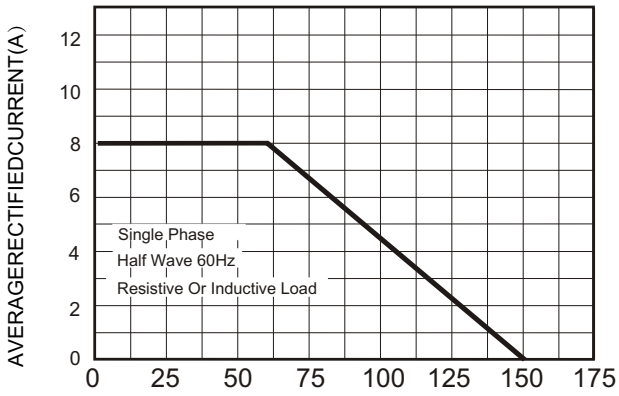
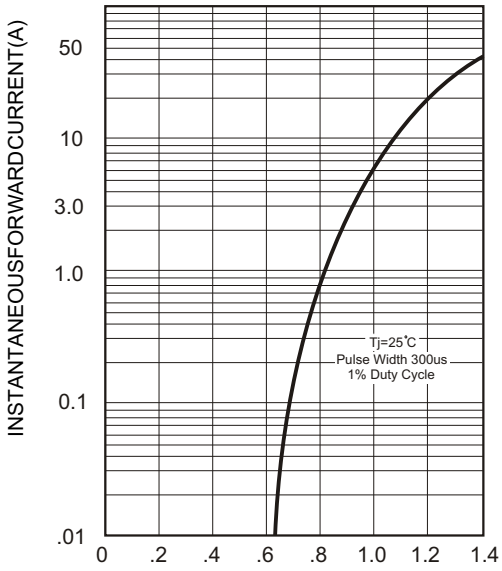
RATING AND CHARACTERISTIC CURVES



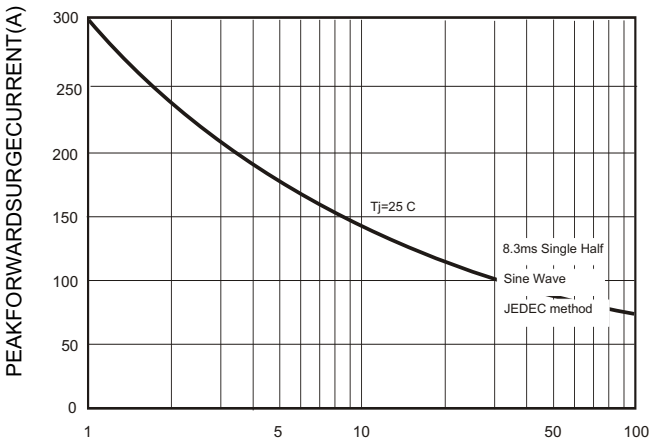
Tc , CASE TEMPERATURE (°C)

Fig. 1 Forward Current Derating Curve



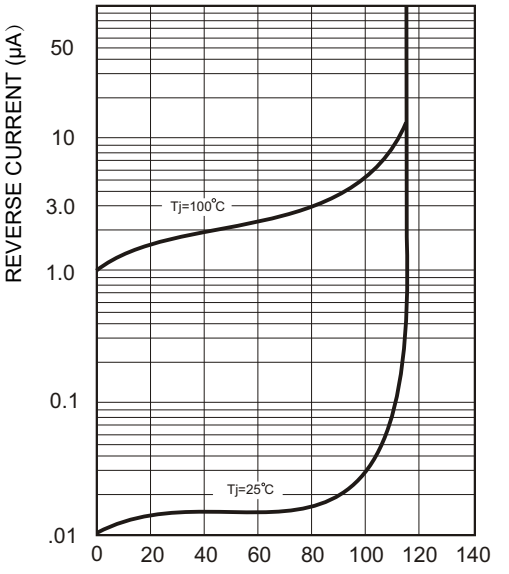
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz

Fig. 3 Maximum Non-Repetitive Surge Current



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

Fig. 4 Reverse Characteristics

ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
RS801~RS807	RS-6	BULK	400pcs/Box