

RS201L THRU RS207L

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

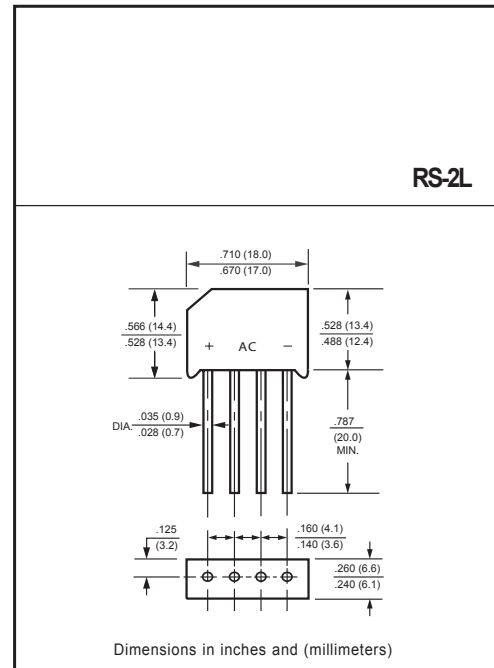
- * Ideal for printed circuit board
- * Surge overload rating: 50 amperes peak
- * Weight: 2.74 grams
- * Mounting position: Any

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL listed the recognized component directory, file #94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
resistive or inductive load.



MAXIMUM RATINGS (@ T_A=25 °C unless otherwise noted)

RATINGS	SYMBOL	RS201L	RS202L	RS203L	RS204L	RS205L	RS206L	RS207L	UNITS
Maximum Recurrent 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 Rectified Current at T _A = 50 °C	I _O	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60							Amps
Current Squared Time	I ² t	14.9							A ² /Sec
Typical Thermal Resistance (Note 1)	R _{θJC}	15							°C/W
	R _{θJA}	40							
Typical Junction Capacitance (Note 3)	C _J	15							pF
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

ELECTRICAL CHARACTERISTICS (@ T_A=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS201L	RS202L	RS203L	RS204L	RS205L	RS206L	RS207L	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC	V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A = 25 °C	5.0							μAmps
	@ T _A = 100 °C	100							

- NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Measured at 1MHz and applied reverse voltage of 4.0 volts.

2009-11
REV:O

RATING AND CHARACTERISTICS CURVES (RS201L THRU RS207L)

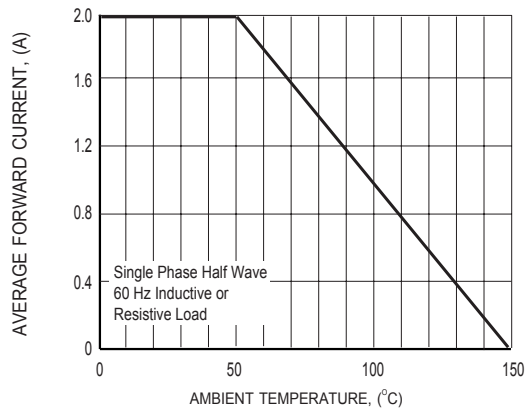


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

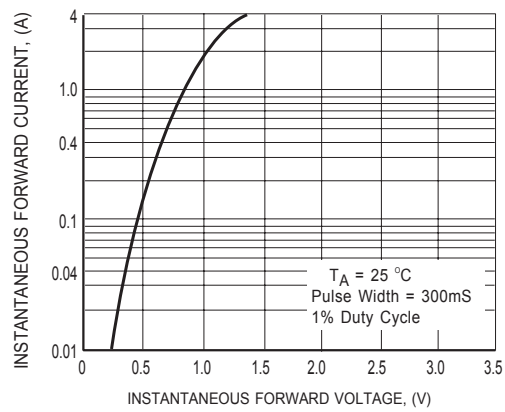


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

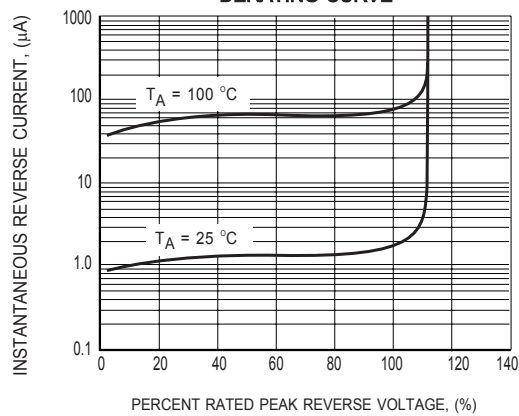


FIG.3 TYPICAL REVERSE CHARACTERISTICS

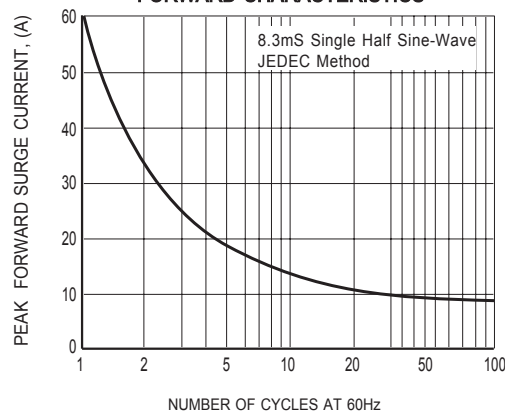
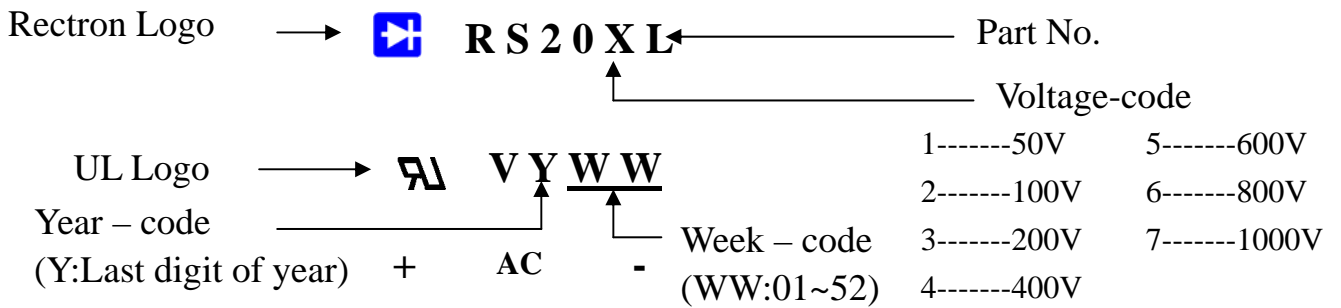


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
RS-2L	-B	400	213*162*52	450*220*255	4,000	13.65

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