

RECTRON

SEMICONDUCTOR

TECHNICAL SPECIFICATION

RS201L
THRU
RS207L

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

FEATURES

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

MECHANICAL DATA

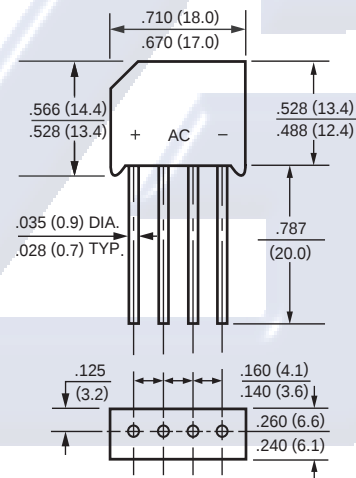
- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



RS-2L



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RS201L	RS202L	RS203L	RS204L	RS205L	RS206L	RS207L	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current TA = 50°C	IO	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60							Amps
Operating Temperature Range	TJ	-55 to + 125							°C
Storage Temperature Range	TSTG	-55 to + 150							°C
Typical Junction Capacitance (Note)	CJ	15							pF

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS201L	RS202L	RS203L	RS204L	RS205L	RS206L	RS207L	UNITS
Maximum Forward Voltage Drop per Bridge Element at 2.0A DC	VF	1.1							Volts
Maximum Reverse Current at Rated	IR	10							uAmps
Dc Blocking Voltage per element		0.5							mAmps

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

2001-5

RATING AND CHARACTERISTIC CURVES (RS201L THRU RS207L)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

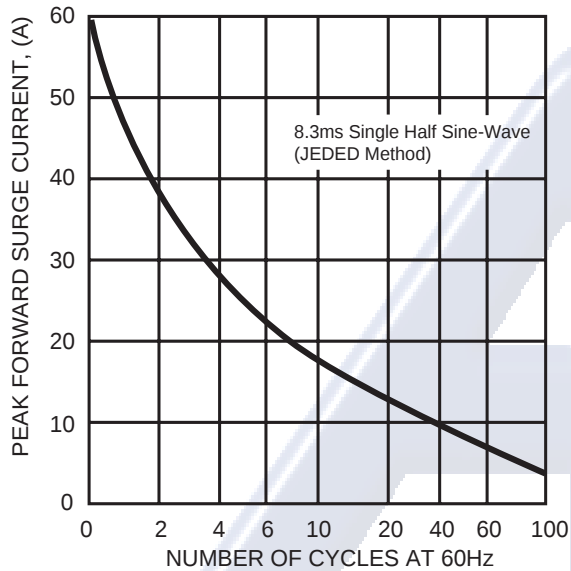


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

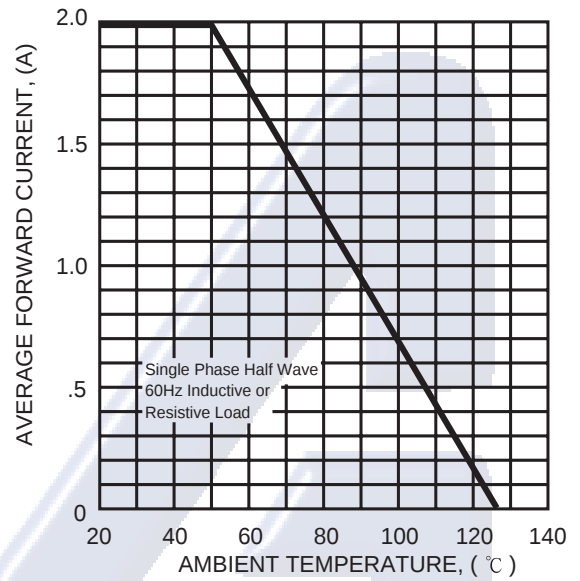


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

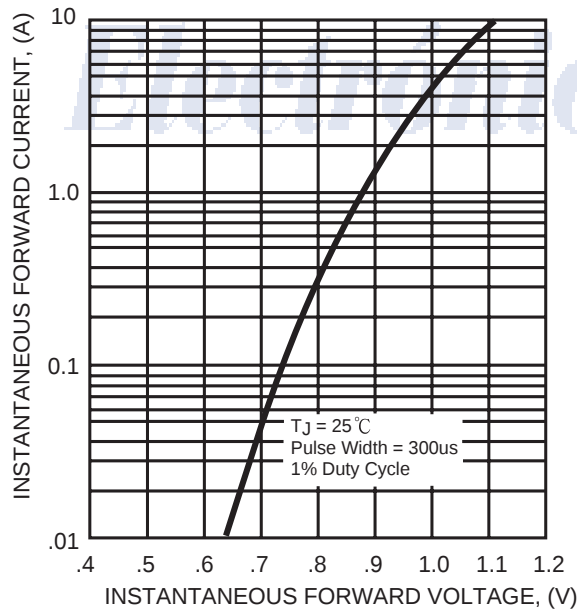


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

