

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

FEATURES

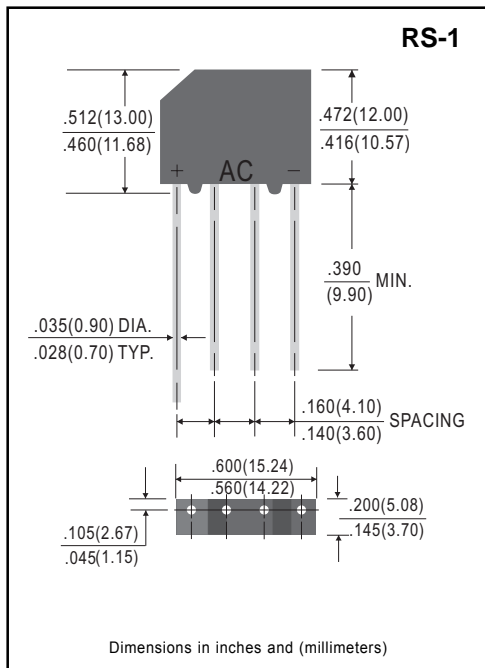
- * Ideal for printed circuit board
- * Surge overload rating: 60 amperes peak
- * Mounting position: Any
- * Glass Passivated chip Junctions
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

MECHANICAL DATA

- * UL listed the recognized component directory, file #E195711
- * Epoxy: Device has UL flammability classification 94V-0
- * Weight: 2.04 grams

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%.



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

RATINGS	SYMBOL	RS201	RS202	RS203	RS204	RS205	RS206	RS207	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Bridge Input 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 Output Current TA = 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
Typical Thermal Resistance (Note 1)	R _{θJC}	15								°C/W
	R _{θJA}	30								
Operating Temperature Range	T _J	-55 to + 150								°C
Storage Temperature Range	T _{STG}	-55 to + 150								°C
Typical Junction Capacitance (Note 2)	C _J	15								pF

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

CHARACTERISTICS	SYMBOL	RS201	RS202	RS203	RS204	RS205	RS206	RS207	UNITS	
Maximum Forward Voltage Drop per Bridge Element at 2.0A DC	V _F	1.1								Volts
Maximum Reverse Current at Rated Dc Blocking Voltage per element	I _R	@TA = 25°C				10				uAmps
		@TA = 100°C				0.5				mAmps

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (RS201-01 THRU RS207-01)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

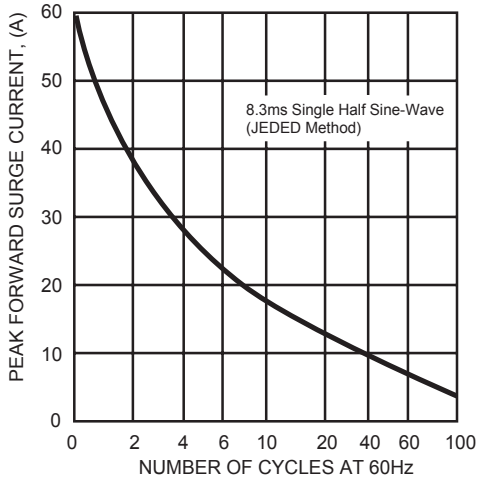


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

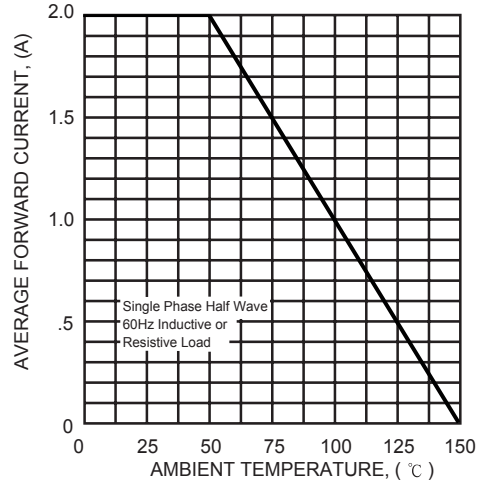


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

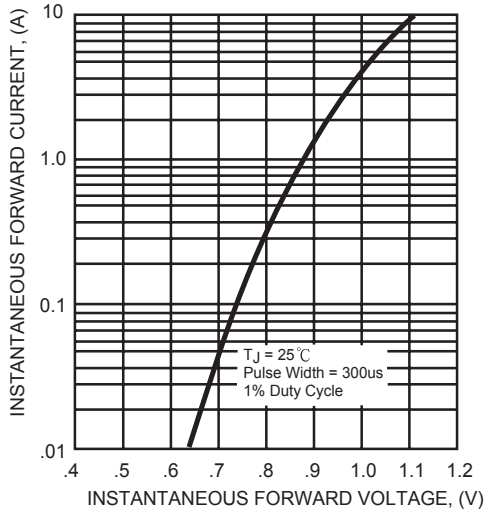


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

