

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Weight: 1.26 grams

MECHANICAL DATA

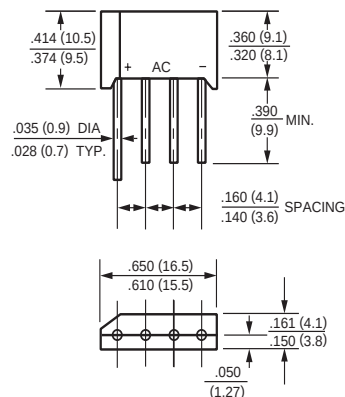
- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O

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-1



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	RS101	RS102	RS103	RS104	RS105	RS106	RS107	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 at TA = 50°C	I _O	1.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amps
Typical Thermal Resistance from junction to ambient	R θ J A	50							°C/W
Typical Thermal Resistance from junction to case	R θ J C	15							
Operating Temperature Range	T _J	-55 to + 150							° C
Storage Temperature Range	T _{STG}	-55 to + 150							° C

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

CHARACTERISTICS	SYMBOL	RS101	RS102	RS103	RS104	RS105	RS106	RS107	UNITS
Maximum Forward Voltage Drop per Bridge Element at 1.0A DC	VF	1.0							Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	IR	5.0							uAmps
		1							mAmps

Note: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2005-3

REV: A

RATING AND CHARACTERISTIC CURVES (RS101 THRU RS107)

FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

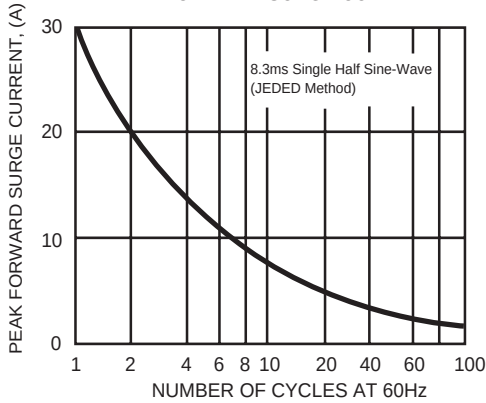


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

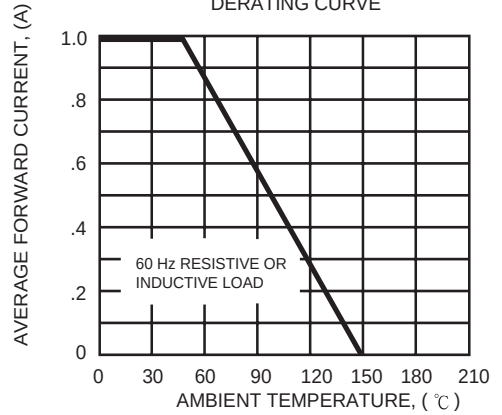


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

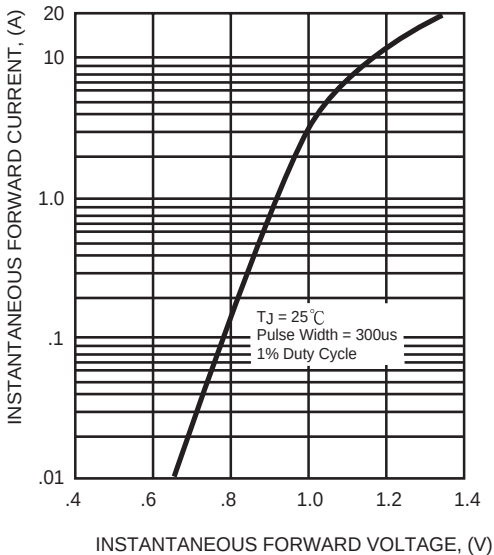
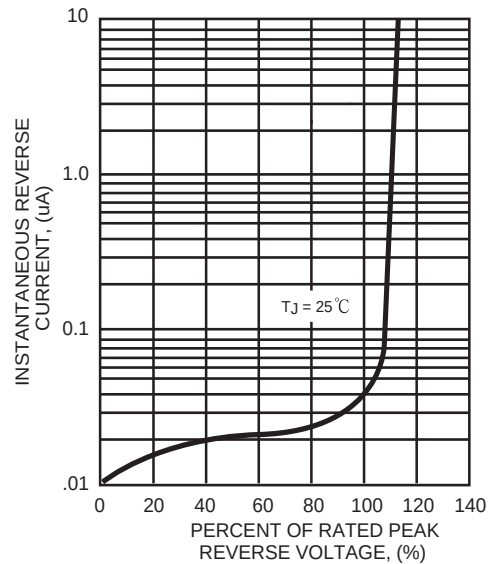


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



AMEYA360

Components Supply Platform

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