

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

VOLTAGE 1200 Volts CURRENT 1.0 Ampere

FEATURES

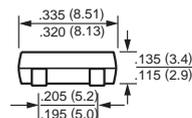
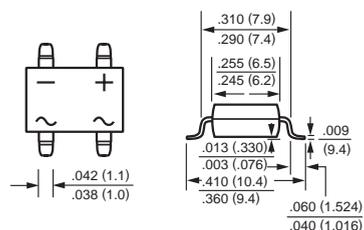
- * Surge overload rating - 50 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 1.0 gram

MECHANICAL DATA:

- * Epoxy : UL flammability classification 94V-0



DB-S



Dimensions in inches and (millimeters)

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	DB1012S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1200	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	840	Volts
Maximum DC Blocking Voltage	V _{DC}	1200	Volts
Maximum Average Forward Output Current at TA = 40°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}	50	Amps
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	DB1012S	UNITS
Maximum Forward Voltage Drop per Bridge Element at 1.0A DC	V _F	1.1	Volts
Maximum Reverse Current at rated	I _R	5.0	uAmps
DC Blocking Voltage per element		0.5	mAmps

NOTE: Suffix "-s" Surface Mount for Dip Bridge.

RATING AND CHARACTERISTIC CURVES OF DB1012S

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

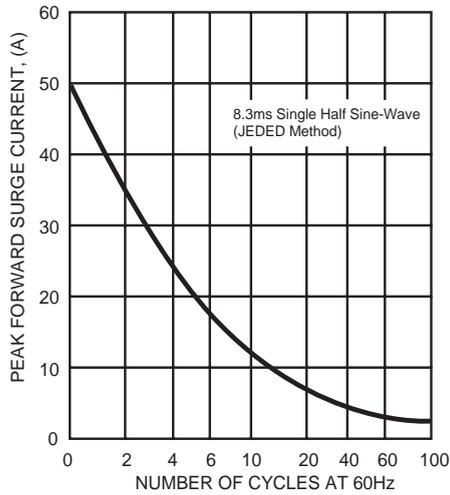


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

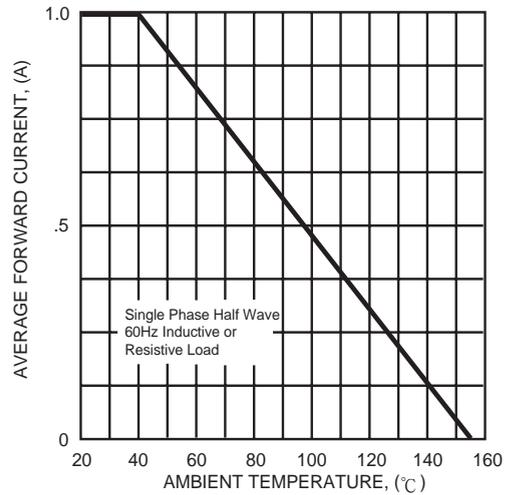


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

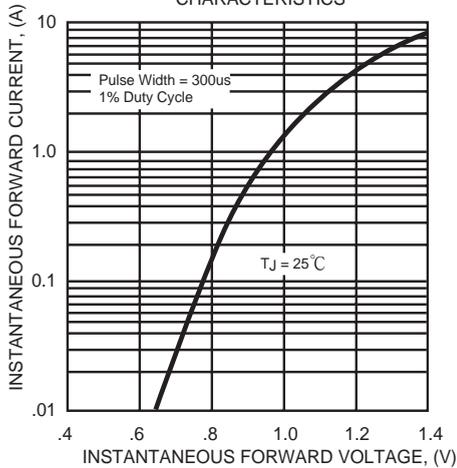


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

