



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE 1200 Volts CURRENT 1.0 Ampere

FEATURES

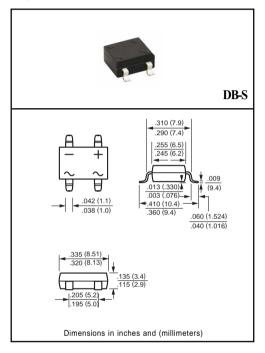
- * Surge overload rating 50 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 1.0 gram

MECHANICAL DATA:

* Epoxy: UL flammability classification 94V-0

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	VRRM	1200	Volts
Maximum RMS Bridge Input Voltage	VRMS	840	Volts
Maximum DC Blocking Voltage	VDC	1200	Volts
Maximum Average Forward Output Current at TA = 40°C	lo	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50	Amps
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150	٥C

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

CHARACTERISTICS		SYMBOL	DB1012S	UNITS
Maximum Forward Voltage Drop per Bridge	VF		11	Volts
Element at 1.0A DC		VF	1.1	VOIIS
Maximum Reverse Current at rated	@TA = 25°C	l _R	5.0	uAmps
DC Blocking Voltage per element	@Ta = 125°C		0.5	mAmps

RATING AND CHARACTERISTIC CURVES OF DB1012S

NUMBER OF CYCLES AT 60Hz

20 40 60

