



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE 1300 Volts CURRENT 1.0 Ampere

FEATURES

- * Good for automation insertion
- * Surge overload rating 40 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: Device has UL flammability classification 94V-O
- * UL listed under the recognized component directory, file #E94233.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.



Dimensions in inches and (millimeters)

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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	YMBOL DB1012	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1300	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	910	Volts
Maximum DC Blocking Voltage	V _{DC}	1300	Volts
Maximum Average Forward Output Current at T_{A} = 40°C	I ₀ 1.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	40	Amps
Typical Current Squared Time	I ² T	6.64	A ² S
	RθJA	40	•C/W
Typical Thermal Resistance (Note 2)	R _{θJL}	15	0/11
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150	0 C

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

CHARACTERISTICS		SYMBOL	DB1012	UNITS
Maximum Forward Voltage Drop per Bridge Element at 1.0A DC		V _F	1.0	
DC Blocking Voltage per element	@T _A = 125°C	0.05	mAmps	

Note: 1."ROH S compliant"

2. Thermal Resistance: PCB mounted.



RATING AND CHARACTERISTICS CURVES (DB1012)



1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
DB-1	-C	2,500	440*130*65	460*290*150	10,000	6.80



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