

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

DB101 THRU DB107

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Good for automation insertion
- * Surge overload rating 30 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

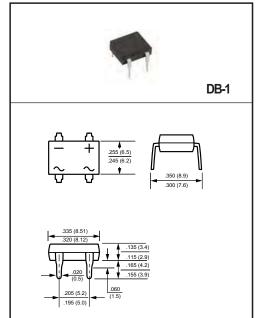
MECHANICAL DATA

- * 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)

L MAXIMUM RATINGS (At T₄ = 25°C unless otherwise noted)

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	DB101	DB102	DB103	DB104	DB105	DB106	DB107	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 T _A = 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}	30							Amps
Typical Current Squared Time	I ² T	3.74					A ² S		
Turical Thermal Decistance (Nate 2)	R _{OJ A}	40							- ⁰C/W
Typical Thermal Resistance (Note 2)	R _{OJL}	15							
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						٥C	

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

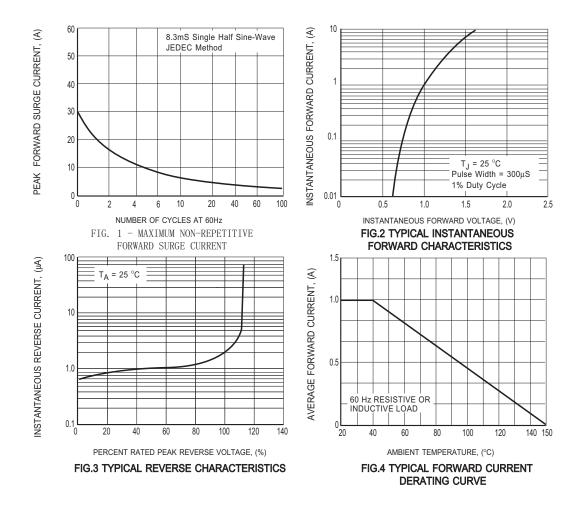
CHARACTERISTICS		SYMBOL	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
Maximum Forward Voltage Drop per Bridge		Vr	1.0							Volts
Element at 1.0A DC		V F	1.0							VOILS
Maximum Reverse Current at Rated	@T _A = 25°C	le.	1.0							uAmps
DC Blocking Voltage per element	@T _A = 125°C	IR	0.05							mAmps

Note: 1."Fully ROHS compliant","100% Sn plating(Pb-free).

2. Thermal Resistance: PCB mounted.

2016-09 REV:A







PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

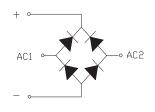
PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
DB-1	-C	2,500	450*140*84	464*305*283	15,000	14.30



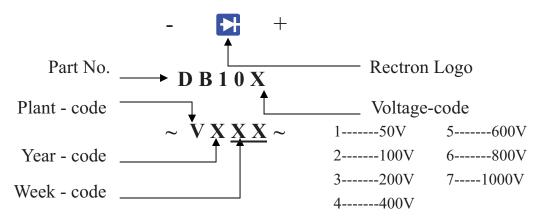


Attachment information about DB10X

1. Internal Circuit



2. Marking on the body



3. Items marked on the inner box and carton

3.1 On the box (for –C) CUSTOMER TYPE LOT NO. **QUANTITY Q.A.** DATE 3.2 On the carton **CUSTOMER**

TYPE **QUANTITY** LOT NO. REMARK

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