



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

VOLTAGE RANGE 50 10 1000 VOIIS CURRENT 1.0 AI

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)

MAXIMUM RATINGS (At $T_A = 25^{\circ}C$ 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		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 $T_A = 40^{\circ}C$	lo	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 Thornal Desistance (Note 2)	R _{θJA}	40						⁰C/W	
Typical Thermal Resistance (Note 2)	RθJL	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 Element at 1.0A DC		VF	1.0							Volts
			1.0							
Maximum Reverse Current at Rated	@T _A = 25°C	la la	1.0							uAmps
DC Blocking Voltage per element	@T _A = 125°C	IR	0.05							mAmps

Note: 1."ROHS compliant".

2. Thermal Resistance: PCB mounted.









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

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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