

DB101 THRU DB107

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

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. For capacitive load, derate current by 20%.

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

MAXIMOM NATINGS (At 14 - 25 6 unless otherwise noted)	1								
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 ₀	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			
Typical Thermal Resistance (Note 2)	R _{θJA}	40							°C/W
Typical Thermal Nesistance (Note 2)	RθJL	15							3/11
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						۰C	

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

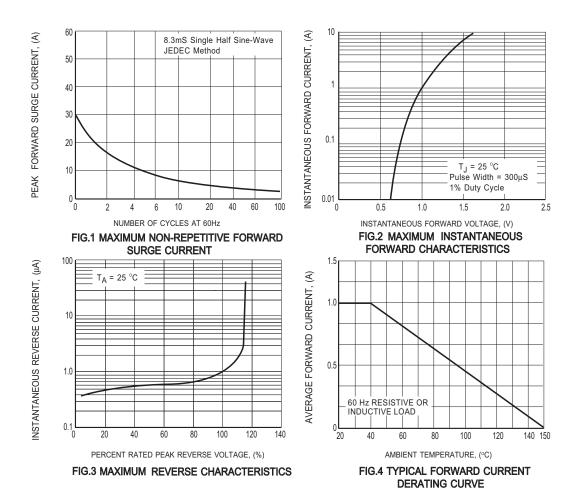
ZZZGTTUGTZ GTWUGTGTZTUGTTGG (7 K 1 A ZG G	unioco cinermico notou)									
CHARACTERISTICS	SYMBOL	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS	
Maximum Forward Voltage Drop per Bridge		VF	10							Volts
Element at 1.0A DC		VF	1.0							VOILS
Maximum Reverse Current at Rated	@T _A = 25°C	la la	1.0							uAmps
DC Blocking Voltage per element	@T _A = 125°C	I _R	0.05							mAmps

Note: 1."ROHS compliant".

2. Thermal Resistance: PCB mounted.

2021-07 REV:B

RATING AND CHARACTERISTICS CURVES (DB101 THRU DB107)

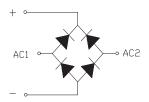




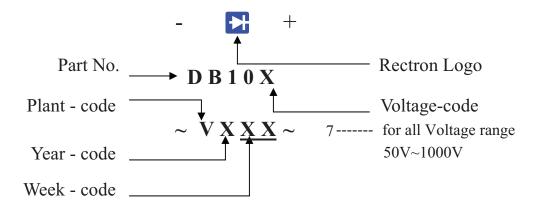


Attachment information about DB10X

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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