

DB101 THRU DB107



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

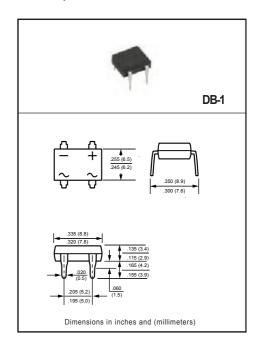
- * Good for automation insertion
- * Surge overload rating 40 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 1.0 gram

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. resistive or inductive load.



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

MAXIMUM RATINGS (At 1A = 25 C unless otherwise noted)									
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}	40						Amps	
Current Squarad Time	nt Squarad Time I ² t 6.6			A ² /Sec					
Typical Thermal Resistance (Note 2)	R _{θJA}	40							· °C/W
Typical Thermal Resistance (Note 2)	Røjl	15							0,11
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					°C		

ELECTRICAL CHARACTERISTICS (At $T_A = 25^{\circ}C$ unless otherwise noted)

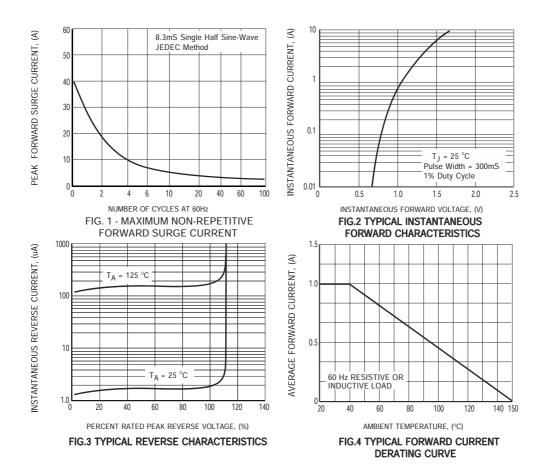
CHARACTERISTICS	SYMBOL	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS	
Maximum Forward Voltage Drop per Bridge		V _F	44							Volts
Element at 1.0A DC			1.1							VOIIS
Maximum Reverse Current at Rated	@T _A = 25°C	L				5.0				μAmps
DC Blocking Voltage per element	@T _A = 125°C	IR.	0.5							mAmps

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

- 2. Thermal Resistance: PCB mounted.
- 3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2011-04 REV:B

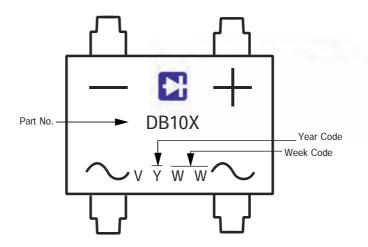
RATING AND CHARACTERISTICS CURVES (DB101 THRU DB107)





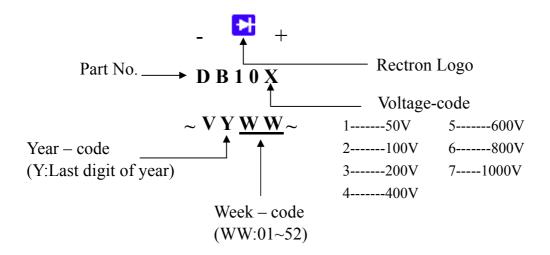
THE MARKING OF DB10X

Marking Description :





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

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



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

