



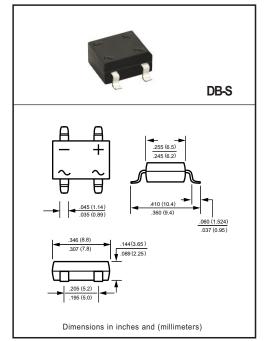
SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

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

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O



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) DB101S DB102S DB104S DB105S DB106S UNITS RATINGS SYMBOL DB103S DB107S 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 50 100 200 400 600 800 1000 Volts V_{DC} Maximum Average Forward Output Current at T_{A} = 40°C 1.0 I_{O} Amps Peak Forward Surge Current 8.3 ms single half sine-wave 30 I_{FSM} Amps superimposed on rated load (JEDEC method) l²t A²Sec Typical Current Squarad Time 3.73 $R_{\theta} JA$ 40 Typical Thermal Resistance (Note 2) °C/W $\mathsf{R}_{\,\theta^{}\mathsf{J}\,\mathsf{L}}$ 15 Operating and Storage Temperature Range TJ, TSTG -55 to + 150 0 C

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

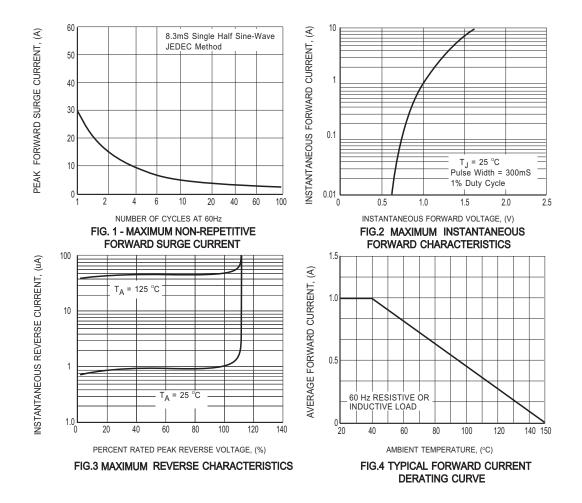
CHARACTERISTICS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS	
Maximum Forward Voltage Drop per chip (iode) at 1.0A DC	V _F			1.0			Volts		
Maximum Reverse Current at Rated	@T _A = 25°C	la la	1.0						uAmps	
DC Blocking Voltage per element	@T _A = 125°C	- 'R	0.05							mAmps
Note: 1 " ROHS compliant" 2022-09										022-09/97

Note: 1." ROHS compliant".

2. Thermal Resistance: Mounted on PCB.

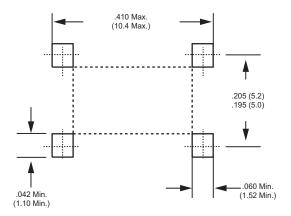
REV:F







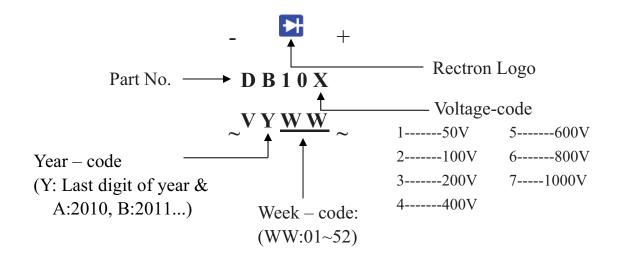
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DB-S	-T/W	1,000	1,000	9.5	52	330	360*355*360	8,000	9.8



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