

DB101S THRU DB107S

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

#### **FEATURES**

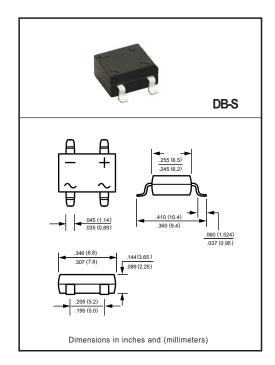
- \* Good for automation insertion
- \* Surge overload rating 30 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded
- \* Glass passivated device
- \* Polarity symbols molded on body
- \* Mounting position: Any

### **MECHANICAL DATA**

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

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. resistive or inductive load.



### MAXIMUM RATINGS (At T<sub>A</sub> = 25°C unless otherwise noted)

MAXIMUM RATINGS (ACTA - 25 C unless outerwise noted)										
RATINGS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts	
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	00 600 800 10			Volts	
Maximum Average Forward Output Current at T <sub>A</sub> = 40°C	I <sub>0</sub>	1.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30							Amps	
Typical Current Squarad Time	l <sup>2</sup> t	3.73						A <sup>2</sup> Sec		
Typical Thermal Resistance (Note 2)	R <sub>θ</sub> JA	40						°C/W		
Typical Thermal Nesistance (Note 2)	R <sub>OJL</sub> 15				0,					
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						٥C		

#### ELECTRICAL CHARACTERISTICS (At T<sub>A</sub> = 25°C unless otherwise noted)

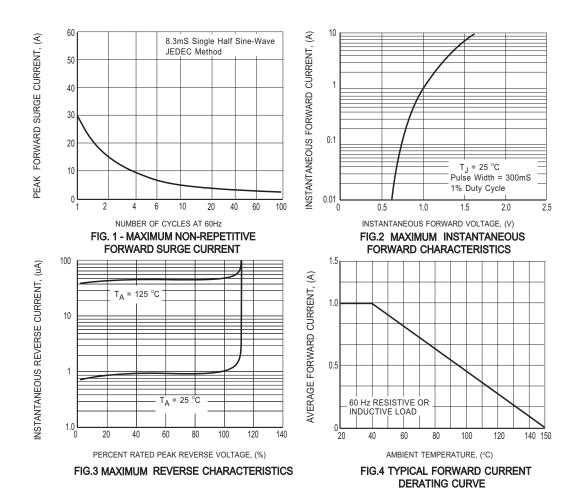
CHARACTERISTICS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS	
Maximum Forward Voltage Drop per chip ( diode ) at 1.0A DC			1.0							Volts
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	In .		1.0						uAmps
DC Blocking Voltage per element	@T <sub>A</sub> = 125°C	I <sub>R</sub>	0.05							mAmps

Note: 1." ROHS compliant".

2. Thermal Resistance: Mounted on PCB.

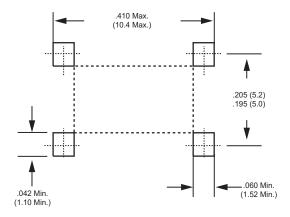
2020-04/97

### RATING AND CHARACTERISTICS CURVES ( DB101S THRU DB107S )





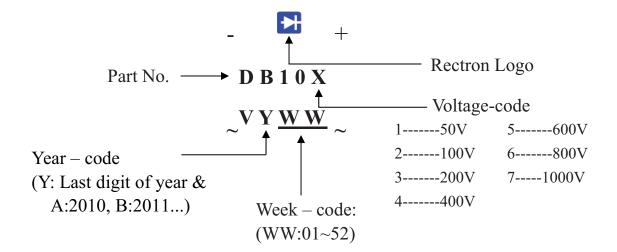
## **Mounting Pad Layout**



Dimensions in inches and (millimeters)



## **Marking Description**





### PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAGE	PACKING CODE	ACKING CODE EA PER BOX INNER BOX SIZE CARTON SIZE (mm)		EA PER CARTON	WEIGHT(Kg)	
DB-S	-C	4,000	450*140*84	464*305*283	24,000	18.44

### 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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