



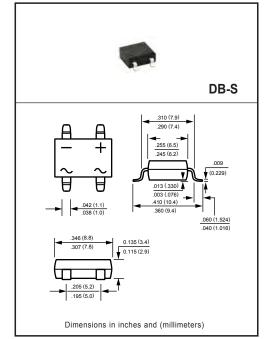
### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

#### FEATURES

- \* Good for automation insertion
- \* Surge overload rating 60 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



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS** Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

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

RATINGS		DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	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	600	800	1000	Volts
Maximum Average Forward Output Current at $T_A = 40^{\circ}C$	Io	2.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60						Amps	
Typical Current Squared Time	I²T	14.9						A <sup>2</sup> S	
Turning Thermal Desistance (Note 2)	R <sub>θJA</sub>	40							- °C/W
Typical Thermal Resistance (Note 2)	Røjl	15							0/10
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						٥C	

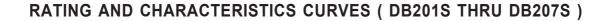
ELECTRICAL CHARACTERISTICS (At T<sub>A</sub> = 25°C unless otherwise noted)

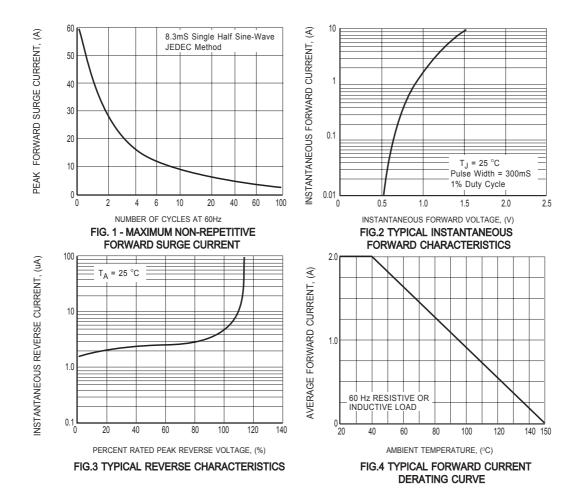
CHARACTERISTICS	SYMBOL	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	UNITS	
Maximum Forward Voltage Drop per Bridge	VF	4.4							Volts	
Element at 2.0A DC	VF	1.1							VOILS	
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	la la	5.0							uAmps
DC Blocking Voltage per element	@T <sub>A</sub> = 125°C	IR	0.5							mAmps

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

2. Thermal Resistance: Mounted on PCB.

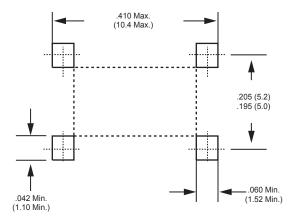
2009-12 REV: A







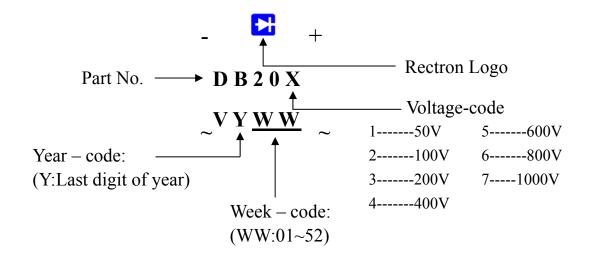
## Mounting Pad Layout



Dimensions in inches and (millimeters)



## **Marking Description**





# 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-S	-C	4,000	450*140*84	464*305*283	24,000	18.44

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
DB-S	-T	1,000	9.5	52	176	355*360*350	8,000	9.80

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