



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

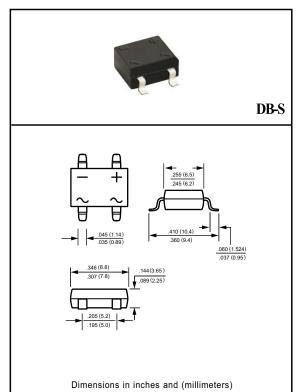
VOLTAGE RANGE 50 to 1200 Volts CURRENT 1.5 Ampere

FEATURES

- * 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

MECHANICAL DATA

- * Epoxy : Device has UL flammability classification 94V-0
- * UL listed 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 TA = 25°C unless otherwise noted)

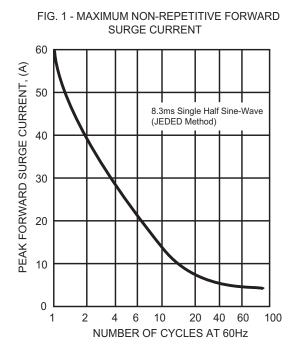
RATINGS	SYMBOL	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	DB1512S	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	1200	Volts
Maximum RMS Bridge Input Voltage	Vrms	35	70	140	280	420	560	700	840	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	Volts
Maximum Average Forward Output Current at TA = $40^{\circ}C$	lo	1.5							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60						Amps		
Typica Current Squared Time	I ² T	14.9								A ² S
	RθJA	40								⁰C/W
Typical thermal resistance	RθJC	30								
	RθJL	15								
Operating and Storage Temperature Range	TJ,TSTG -55 to + 150						٥C			

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

CHARACTERISTIC	SYMBOL	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	DB1512S	UNITS	
Maximum Forward Voltage Drop per E Element at 1.5A DC	Vf	1.0							Volts		
Maximum Reverse Current at rated	@TA = 25°C	IR	1.0								uAmps
DC Blocking Voltage per element	@TA = 125°C	IIX	0.05								mAmps

NOTE: Suffix "-s" Surface Mount for Dip Bridge.

RATING AND CHARACTERISTIC CURVES (DB151S THRU DB1512S)



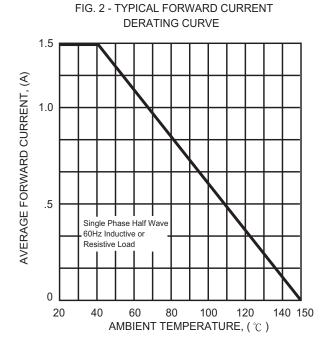


FIG. 3 - MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

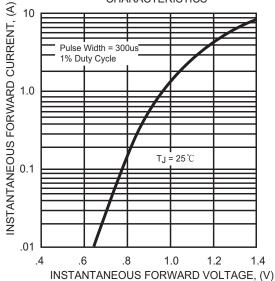
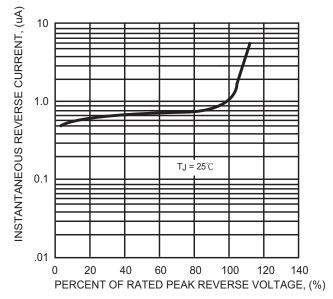
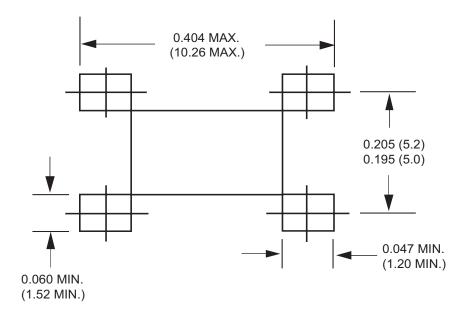


FIG. 4 - MAXIMUM REVERSE CHARACTERISTICS



RECTRON-

Mounting Pad Layout



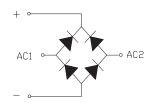
Dimensions in inches and (millimeters)



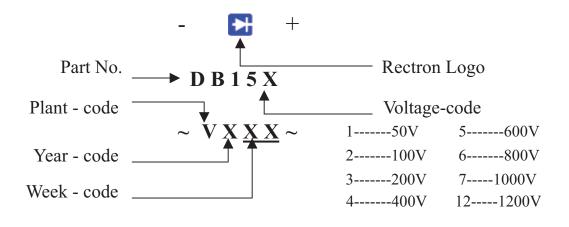


Attachment information about DB15XS

1. Internal Circuit



2. Marking on the body





Attachment information about DB15XS

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 reel**

CUSTOMER TYPE QUANTITY LOT NO. Q.A. REMARK

3.3 On the carton

CUSTOMER TYPE QUANTITY LOT NO. REMARK

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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