



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Ampere

FEATURES

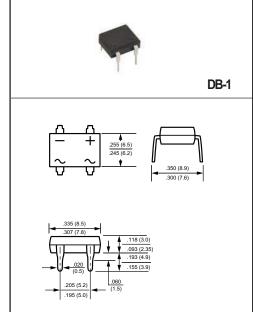
- * Good for automation insertion
- * Surge overload rating 40 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 1.0 gram

MECHANICAL DATA

- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

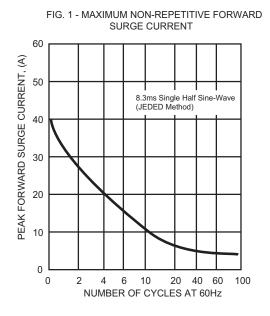
MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40°C	lo	1.5					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40					Amps		
Typical Current Squared Time	I ² T	6.64				A ² S			
Typical Thermal Resistance	Rθja	55					°C/W		
Typical Thermal Resistance	RθJL	8					0,11		
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150					° C		

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

CHARACTERISTIC	SYMBOL	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS	
Maximum Forward Voltage Drop per Bridge		VF	10							Volts
Element at 1.5A DC		VF	1.0							VOIIS
Maximum Reverse Current at Rated @TA = 25°C		- IR	1.0						uAmps	
DC Blocking Voltage per element	@TA = 125°C	7 17	0.05							mAmps
Note:1. "RoHS compliant"									2021-07	

REV:E



RATING AND CHARACTERISTIC CURVES(DB151 THRU DB157)

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE 1.5 AVERAGE FORWARD CURRENT, (A) 1.0 .5 60 Hz RESISTIVE OR INDUCTIVE LOAD 0 20 40 60 80 100 120 140 150 AMBIENT TEMPERATURE, (°C)

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

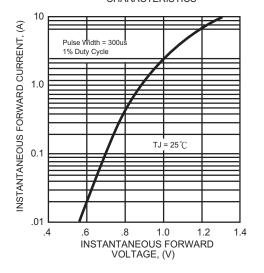
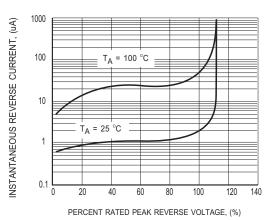
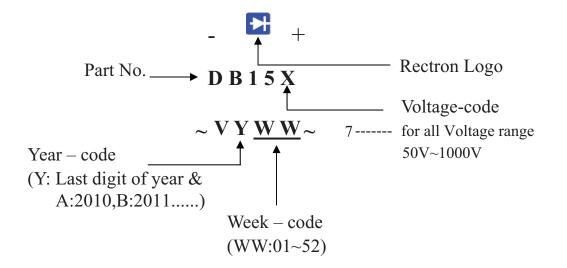


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





Marking Description



CRECTRON -

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-1	-C	2,500	440*130*65	460*290*150	10,000	6.80



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