

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER

DB%) 1S THRU DB%) 7S

## VOLTAGE RANGE 50 to 1000 Volts CURRENT FĚ Ámperes

### FEATURES

- \* Surge overload rating 50 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: 0.378 grams
- \* RoHS product for packing code suffix "G" Halogen free product for packing code suffix "H"

### **MECHANICAL DATA**

\* Epoxy : Device has UL flammability classification 94V-0

### 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)

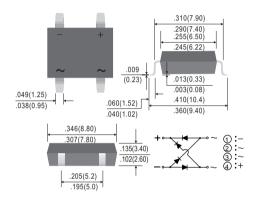
RATINGS	SYMBOL	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward 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	50						Amps	
Typical thermal resistance	R θ J A R θ J L	40 15							°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150							٥C

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

CHARACTERISTICS		SYMBOL	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Maximum Forward Voltage Drop per Bridge		VF								
Element at 1.5A DC		VF	1.1							Volts
Maximum Reverse Current at rated	@TA = 25°C	l R	5.0							uAmps
DC Blocking Voltage per element	@TA = 125°C	II.	0.5							mAmps

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

DB-S



Dimensions in inches and (millimeters)

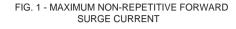


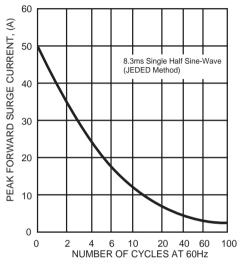
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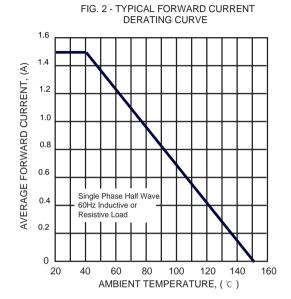
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# RATING AND CHARACTERISTIC CURVES (DB151S THRU DB157S)







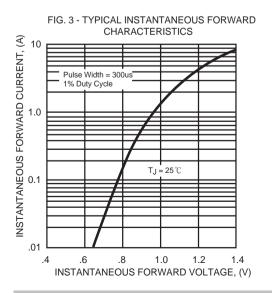
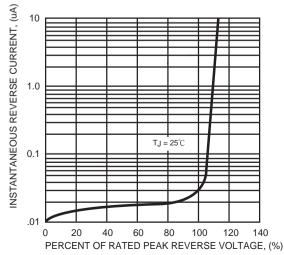


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



2016-05