-WILLAS

DB101S THRU DB107S

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

FEATURES

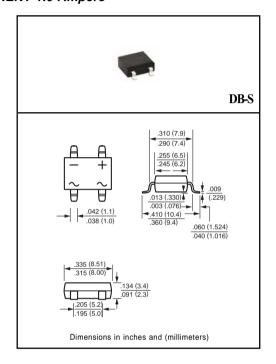
- * Surge overload rating 50 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 0.378 grams
- * RoHS product for packing code suffix "G"
 Halogen free product for packing code suffix "H"

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-0
- * UL listed the recognized component directory, file #E195711

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ 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)

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RATINGS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40°C	lo	1							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40							Amps
Rating for fusing (t<8.3ms)	I²t	6.6							A ² S
Typical Thermal Resistance	RθJA	40							<u> </u>
(Note 2)	RθJL	15							°C/W
	Rθ _{JC}	10							
Operating and Storage Temperature Range	T_J , T_{STG}	-55 to + 150						$^{\circ}\mathbb{C}$	

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

CHARACTERISTICS		SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Element at 1.0A DC Maximum Forward Voltage Drop per Bridge		V_{F}	1.1						Volts	
Maximum Reverse Current at rated	@TA = 25°C	-	5							uAmps
DC Blocking Voltage per element	@TA = 125°C	IR	0.5							mAmps

NOTE: 1.Suffix "-s" Surface Mount for Dip Bridge.

RATING AND CHARACTERISTIC CURVES (DB101S THRU DB107S)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 8.3ms Single Half Sine-Wave (JEDED Method) NUMBER OF CYCLES AT 60Hz

