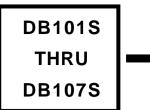
-WILLAS



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"

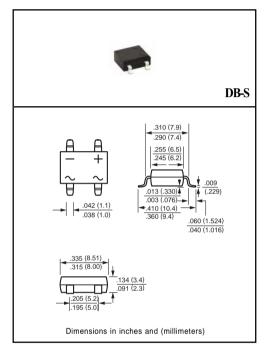
MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.



For capacitive load, derate current by 20%.

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)	l²t	6.6							A ² S
Typical Thermal Resistance	Rθja	40							
(Note 2)	Rθ _{JL}	15							°C/W
	Rθ _{JC}	10							L
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						°C	

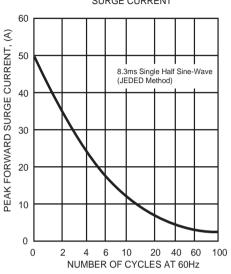
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

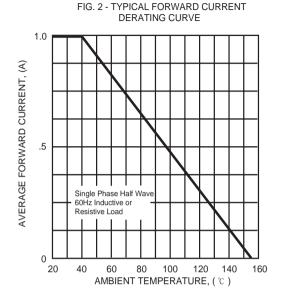
CHARACTERISTICS		SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Element at 1.0A DC Maximum Forward Voltage Drop per Bridge		VF	1.1							Volts
Maximum Reverse Current at rated	@TA = 25°C	I _R	5							uAmps
DC Blocking Voltage per element	@TA = 125℃		0.5							mAmps

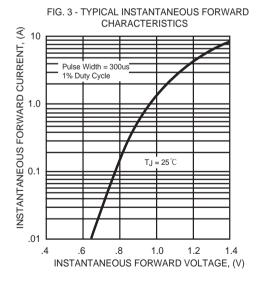
NOTE: 1.Suffix "-s" Surface Mount for Dip Bridge.

2.Units mounted on P.C.B.with 0.5x0.5" (13x13mm) copper pads.

RATING AND CHARACTERISTIC CURVES (DB101S THRU DB107S)









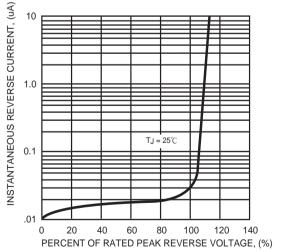


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT