

DB107 -C-S-R01

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE 1000 Volts CURRENT 1.0 Ampere

FEATURES

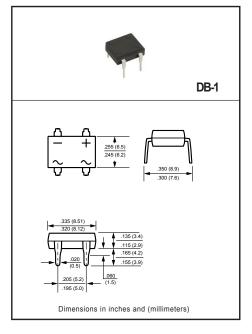
- * Good for automation insertion
- * Surge overload rating 50 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 1.0 gram

MECHANICAL DATA

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

RATINGS	SYMBOL	DB107-C-S-R01	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	700	Volts
Maximum DC Blocking Voltage	V _{DC}	1000	Volts
Maximum Average Forward Output Current at T _A = 40°C	I ₀	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50	Amps
Timinal Thomas Desistance (Nata 2)	R _{θJA}	40	°C/W
Typical Thermal Resistance (Note 2)	RøJL	15	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150	°C

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

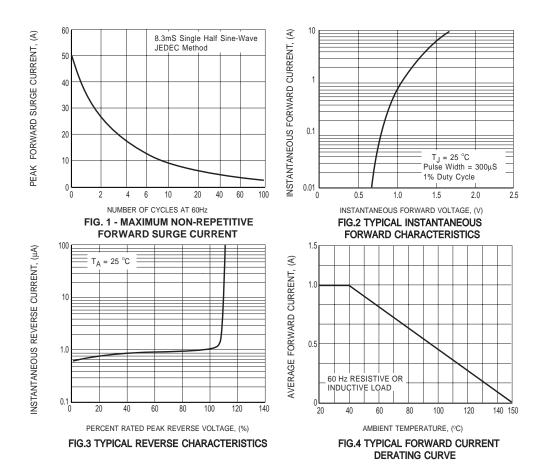
	CHARACTERISTICS		SYMBOL	DB107-C-S-R01	UNITS
	Maximum Forward Voltage Drop per Bridge		V _F	1.1	Volts
	Element at 1.0A DC				
	Maximum Reverse Current at Rated	@T _A = 25°C	- I _R	2.0	μAmps
	DC Blocking Voltage per element	@T _A = 125°C		0.5	mAmps

Note: 1."Fully ROHS compliant","100% Sn plating(Pb-free).

2. Thermal Resistance: PCB mounted.

2007-1

RATING AND CHARACTERISTICS CURVES (DB107-C-S-R01)





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