

DB101LS THRU DB107LS

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Good for automation insertion
- * Surge overload rating 30 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

DB-LS DB

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	DB101LS	DB102LS	DB103LS	DB104LS	DB105LS	DB106LS	DB107LS	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 T _A = 40°C	Io	1.0					Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				30					
Tunical Thermal Decistance (Note 2)	R _{θJA}	40							°C/W	
Typical Thermal Resistance (Note 2)	Røjl				15				O/W	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						°C		

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

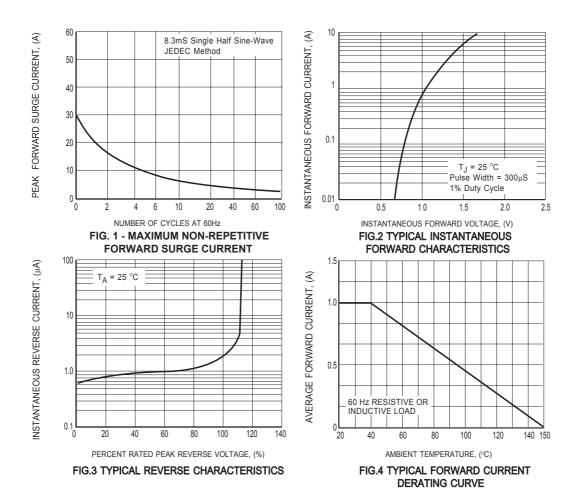
CHARACTERISTICS		SYMBOL	DB101LS DB102LS DB103LS DB104LS DB105LS DB106LS DB107LS	UNITS			
Maximum Forward Voltage Drop per Bridge		VF	11				
Element at 1.0A DC		V F	1.1				
Maximum Reverse Current at Rated	@T _A = 25°C	le .	5.0				
DC Blocking Voltage per element	@T _A = 125°C	IR	0.5	mAmps			

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

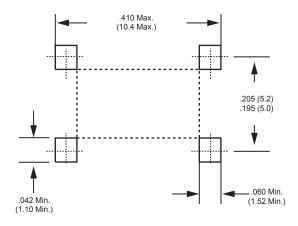
2. Thermal Resistance: Mounted on PCB.

2007-08

RATING AND CHARACTERISTICS CURVES (DB101LS THRU DB107LS)



Mounting Pad Layout



Dimensions in inches and (millimeters)



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