

DB10X SERIES



SINGLE-PHASE SILICON BRIDGE RECTIFIER

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http://www.clt-hz.com

DB101 THRU DB107

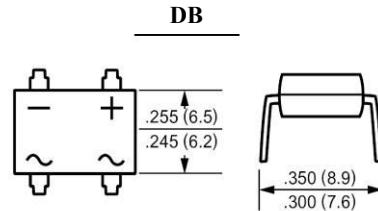
SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 1.0 AMPERE

FEATURES

- Glass passivated chip junction
- Low forward voltage drop
- High surge overload rating of 50 Amperes peak
- Ideal for printed circuit board
- High temperature soldering guaranteed:
260°C for 10 seconds



MECHANICAL DATA

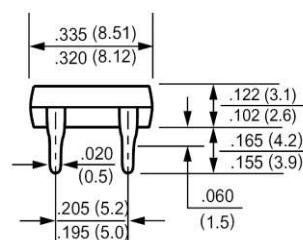
Case: Molded plastic, DB

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,
method 208 guaranteed

Mounting position: Any

Weight: 0.02ounce, 0.4gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _D	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_A=40°C	I _(AV)						1.0		Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}						50		Amp
Maximum Forward Voltage at 1.0A DC and 25°C	V _F						1.1		Volts
Maximum Reverse Current at T_A=25°C at Rated DC Blocking Voltage T_A=125°C	I _R						5.0		uAmp
Typical Junction Capacitance (Note 1)	C _J						25		pF
Typical Thermal Resistance (Note 2)	R _{θJA}						40		°C/W
Typical Thermal Resistance (Note 2)	R _{θJL}						15		°C/W
Operating and Storage Temperature Range	T _J , T _{stg}						-55 to +150		°C

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

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RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Derating Curve Output Rectified Current

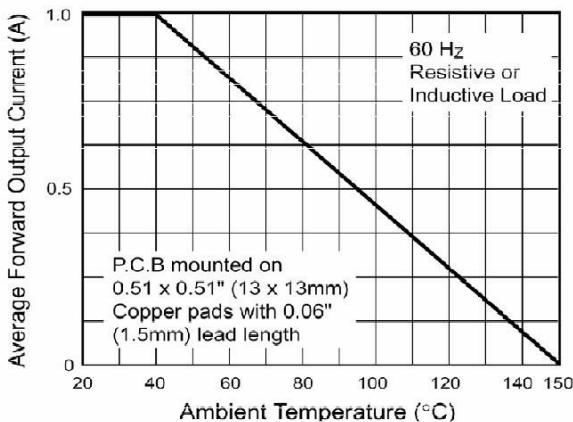


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

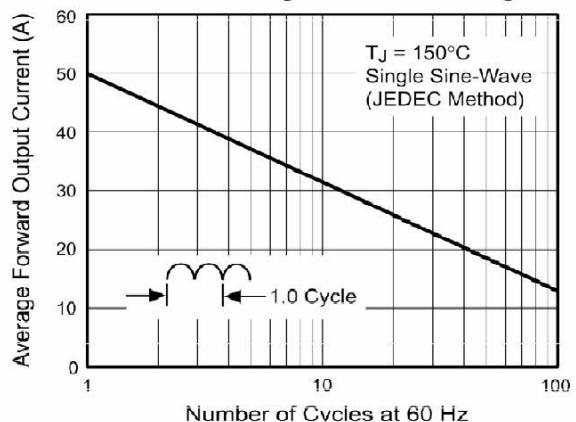


Fig. 3 - Typical Forward Characteristics Per Leg

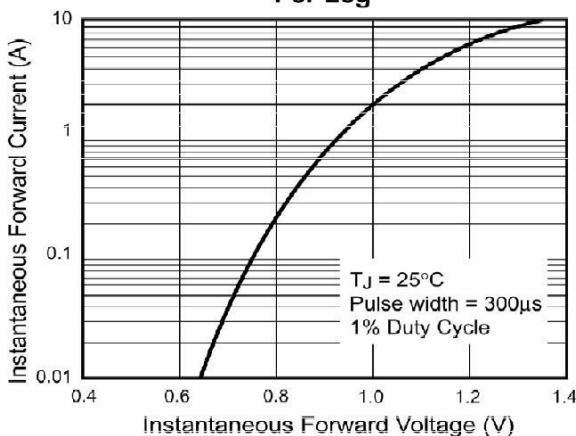


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

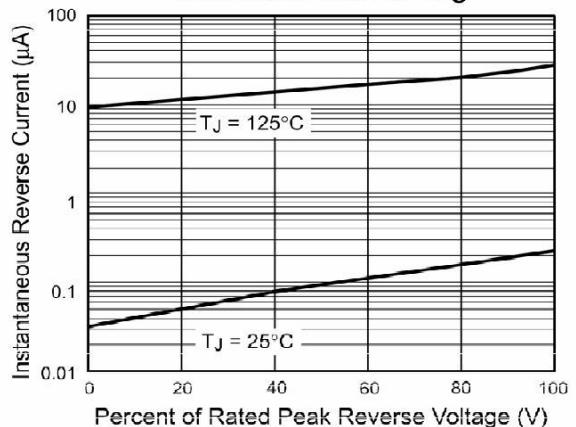


Fig. 5 - Typical Junction Capacitance Per Leg

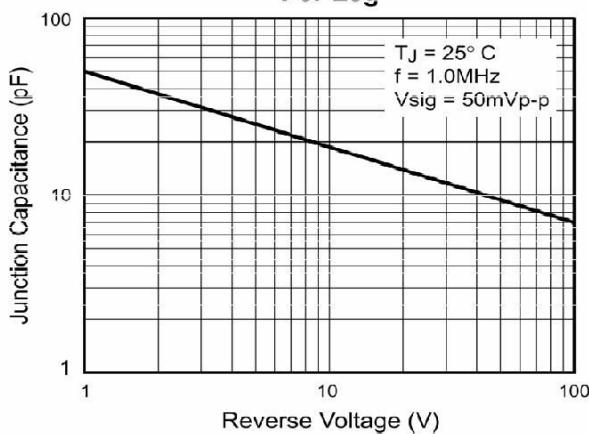


Fig. 6 - Typical Transient Thermal Impedance

