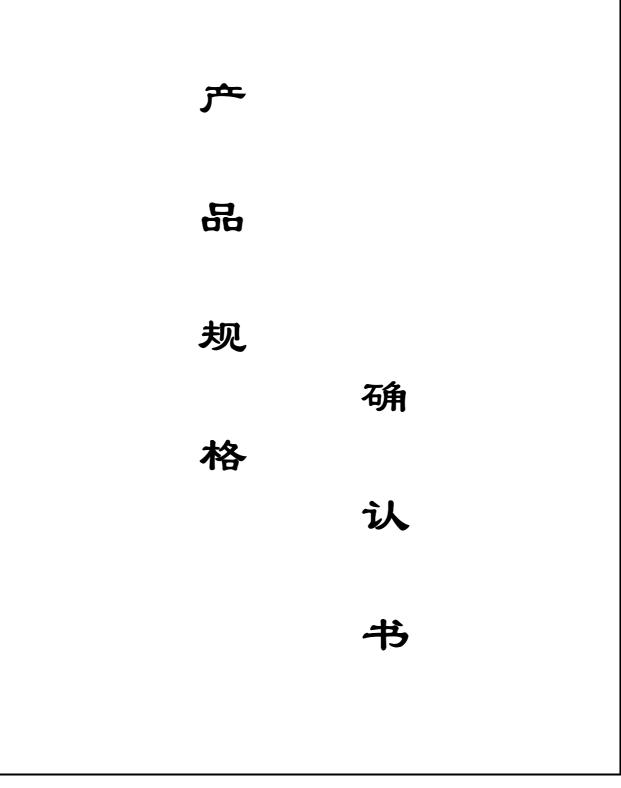
DB10X SERIES

SINGLE-PHASE SILICON BRIDGE RECTIFIER



DB101 THRU DB107

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

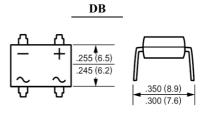
50 to 1000 VOLTS 1.0 AMPERE



- \cdot Glass passivated chip junction
- \cdot Low forward voltage drop
- \cdot High surge overload rating of 50 Amperes peak
- · Ideal for printed circuit board
- \cdot 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

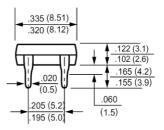


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Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, 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 _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward	Т	1.0							Amp
Rectified Current at T _A =40	I _(AV)								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM}	I _{FSM} 50							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V _F	1.1							Volts
at 1.0A DC and 25	* F								
Maximum Reverse Current at T _A =25	т	5.0							uAmp
at Rated DC Blocking Voltage T _A =125	I _R	500							
Typical Junction Capacitance (Note 1)	CJ				25				pF
Typical Thermal Resistance (Note 2)	R _{0JA}				40				/W
Typical Thermal Resistance (Note 2)	R _{0JL}				15				/W
Operating and Storage Temperature Range	T _J , Tstg				-55 to +15	0			

NOTES:

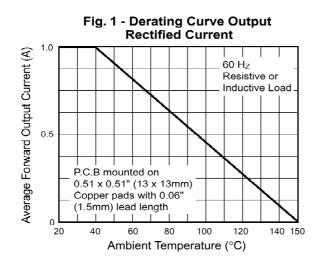
1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

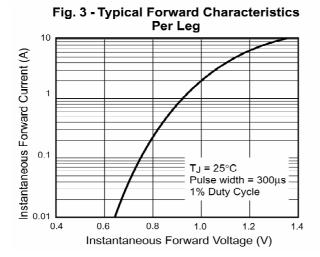
2- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

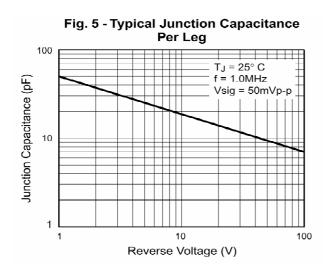
DB101 THRU DB107

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

RATINGS AND CHARACTERISTIC CURVES







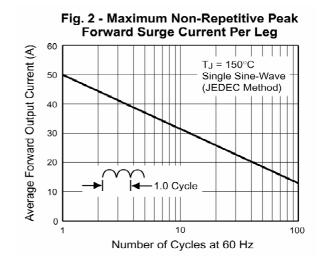


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

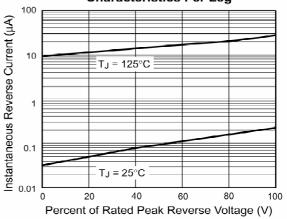


Fig. 6 - Typical Transient Thermal Impedance

