Kingtronics[®]

DB101S THRU DB107S

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts RORWARD CURRENT 1.0 Ampere

FEATURES

Plastic material has Underwriters Laboratory Flammability Classification 94V-0 High surge overload rating of 50 Amperes peak Ideal for printed circuit board Glass passivated chip junction

MECHANICAL DATA

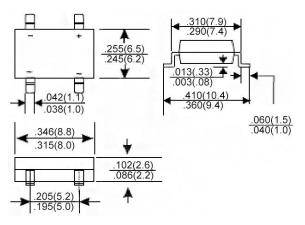
Case: Molded plastic, DB-S

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

DBS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° ambient temperature unless otherwise specified , Dimensions in inches and (millimeters) Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

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PARAMETER		SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNIT
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		I _(AV)	1.0							Amps
Rectified Current at T _A =40°C (Note 2)										
Peak Forward Surge Current 8.3ms single half										
sine-wave superimposed on rated load (JEDEC		IFSM	т ям 30							Amps
method)										
Maximum Forward Voltage at 1.0A DC and 25℃		VF	1.1							Volts
Maximum Reverse Current	T _A = 25 ℃	- I _R	5.0							- uA
at Rated DC Blocking Voltage	T _A = 125℃	IR IR	500							
Typical Junction Capacitance (Note 1)		Cı	25							pF
Typical Thermal Resistance (Note 2)		RθJA	40							°C/W
Typical Thermal Resistance (Note 2)		RөлL	15							°C/W
Operating and Storage Temperature Range		TJ,Tstg	-55 to +150							$^{\circ}$
4. Macayyad at 4. MUZ and applied vayare yellows of 4.0.VDC										

- 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.
- 2- Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

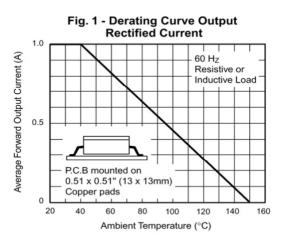
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RATINGS AND CHARACTERISTIC CURVES



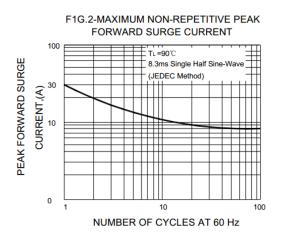
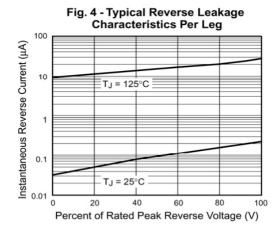


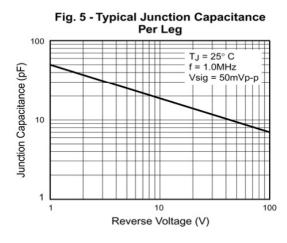
Fig. 3 - Typical Forward Characteristics
Per Leg

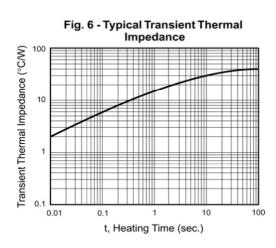
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T_J = 25°C
Pulse width = 300µs
1% Duty Cycle
Instantaneous Forward Voltage (V)







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