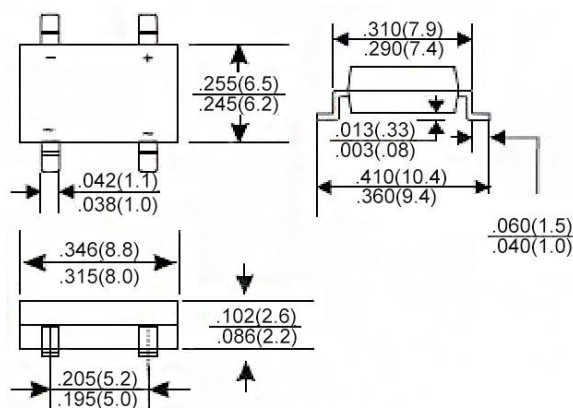


Kingtronics®**DB101S THRU
DB107S****SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER****REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere****FEATURES**

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-0 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°C 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%

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 Rectified Current at T _A =40°C (Note 2)		I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	30							Amps
Maximum Forward Voltage at 1.0A DC and 25°C		V _F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	T _A = 25°C	I _R	5.0							uA
	T _A = 125°C		500							
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

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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Kingtronics®

DB101S THRU DB107S

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Derating Curve Output Rectified Current

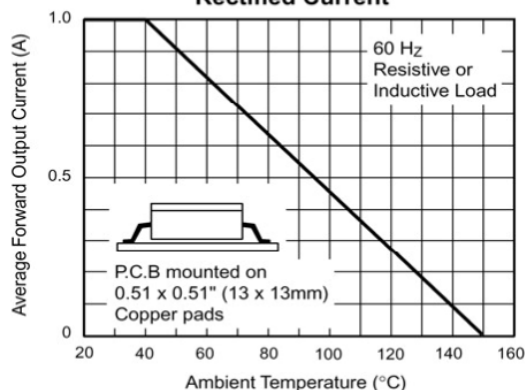


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

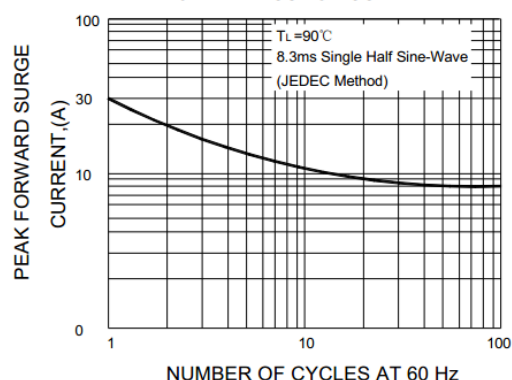


Fig. 3 - Typical Forward Characteristics Per Leg

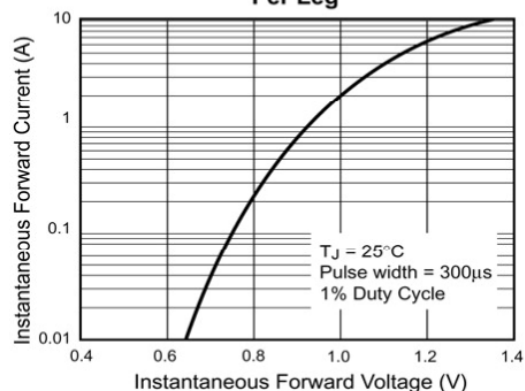


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

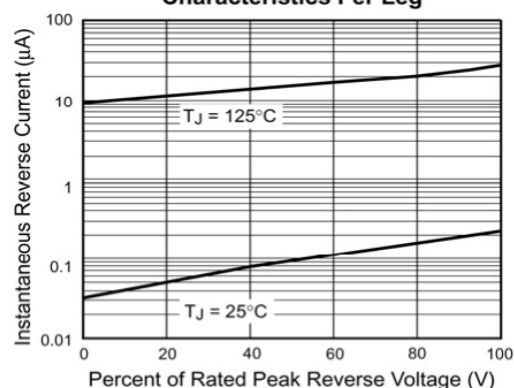


Fig. 5 - Typical Junction Capacitance Per Leg

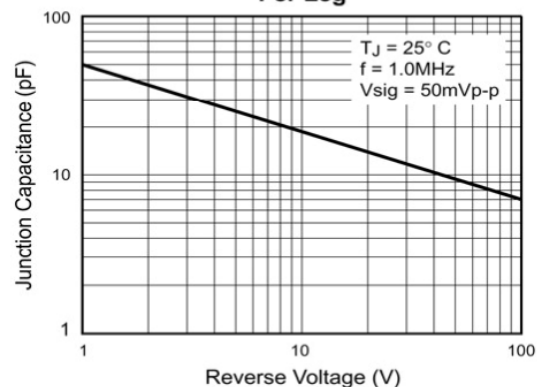
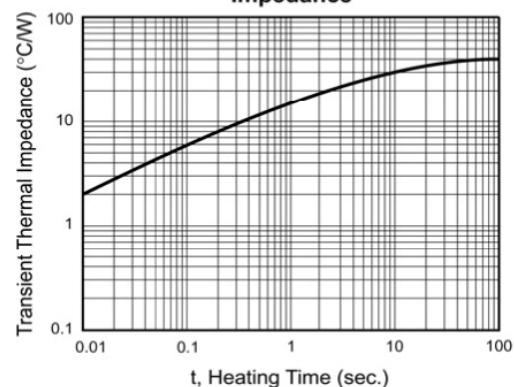


Fig. 6 - Typical Transient Thermal Impedance



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