# Kingtronics®

## DB101 THRU DB107

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER **REVERSE VOLTAGE** 50 to 1000 Volts **FORWARD CURRENT** 1.0 Ampere

DB

#### **FEATURES**

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

#### **MECHANICAL DATA**

Glass passivated chip junction.

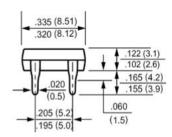
Case: Molded plastic, DB.

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.

# 255 (6.5) 245 (6.2) 350 (8.9) 300 (7.6)



#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

For capacitive load derate curr	ent by 20%
ARAMETER	SY

PARAMETER	SYMBOL	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	>
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T <sub>A</sub> =40°C	I <sub>(AV)</sub>	1.0							А
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	30							A
Maximum forward Voltage at 1.0A DC and 25°C	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at $T_A$ =25°C at Rated DC Blocking voltage $T_A$ =125°C	I <sub>R</sub>	5.0 500							uA
Typical Junction Capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	Rejc	40							℃W
Typical Thermal Resistance (Note 2)	Røjl	15							°C/W
Operating and Storage Temperature Range	$T_J$ , $Tsrg$	-55 to +150							$^{\circ}$

- 1- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 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.

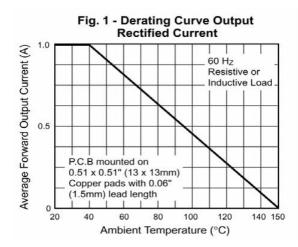
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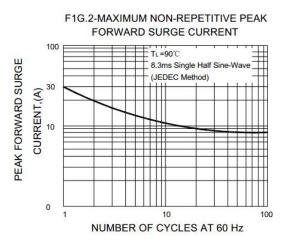
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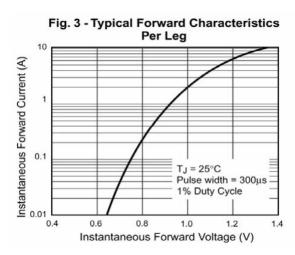
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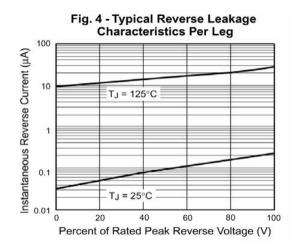
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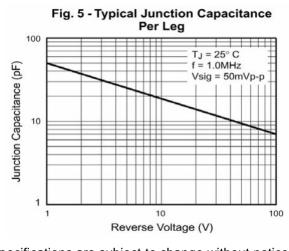
### **RATINGS AND CHARACTERISTIC CURVES**

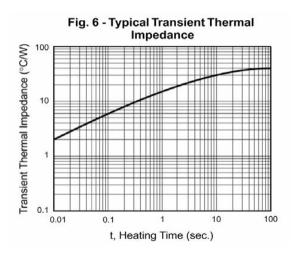












Note: Specifications are subject to change without notice.

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