

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

DBS

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, DBS 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

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%

Tor oupdottive load defaite out ont by 2070										
PARAMETER		SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward		I _(AV)	1.0							Amps
Rectified Current at $T_A=40^{\circ}C$ (Note 2)										
Peak Forward Surge Current 8.3ms single half										
sine-wave superimposed on rated load (JEDEC		IFSM	30							Amps
method)										
Maximum Forward Voltage at 1.0A DC and $25^\circ\!C$		VF	1.1							Volts
Maximum Reverse Current	TA = 25℃		5.0							uA
at Rated DC Blocking Voltage	TA = 125℃	IR	500							
Typical Junction Capacitance (Note 1)		Сл	25							pF
Typical Thermal Resistance (Note 2)		Reja	40 °C							°C /W
Typical Thermal Resistance (Note 2)		Rej∟	15							°C/W
Operating and Storage Temperature Range		TJ,Tstg	-55 to +150							°C
1. Measured at 1 MHZ and applied reverse voltage of 4.0 V/DC										•

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





Note: Specifications are subject to change without notice.

BYNG UNDER OF CYCLES AT 60 Hz

DB101S THRU

DB107S



Fig. 6 - Typical Transient Thermal Impedance



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