

DB101S THRU DB107S

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

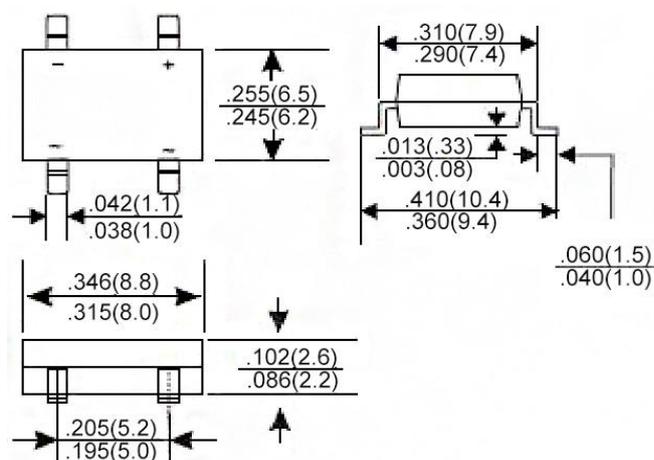
FEATURES

- ◆ 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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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 $T_A=40^\circ\text{C}$ (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	I_R	$T_A = 25^\circ\text{C}$							uA
		$T_A = 125^\circ\text{C}$							
Typical Junction Capacitance (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15							°C/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150							°C

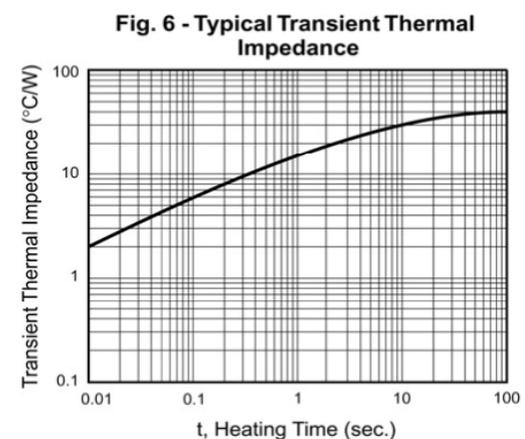
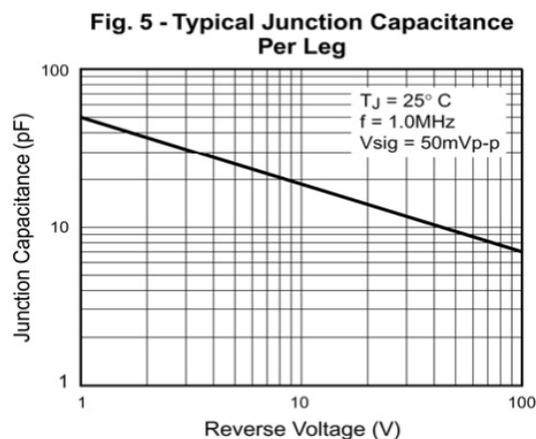
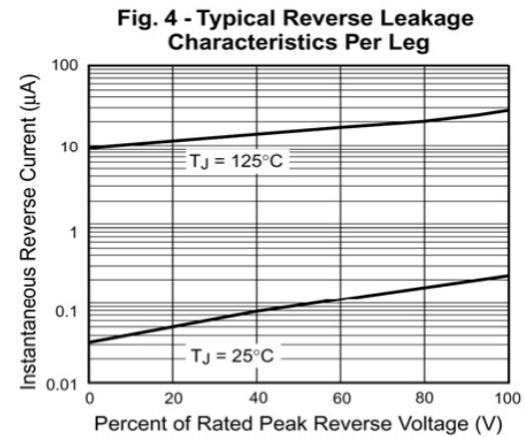
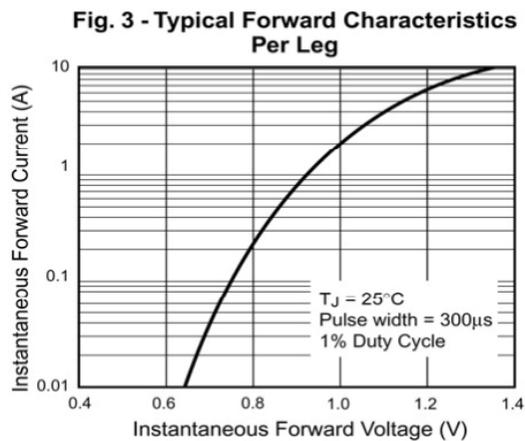
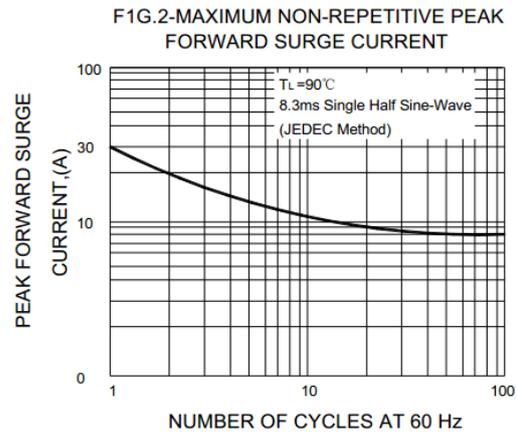
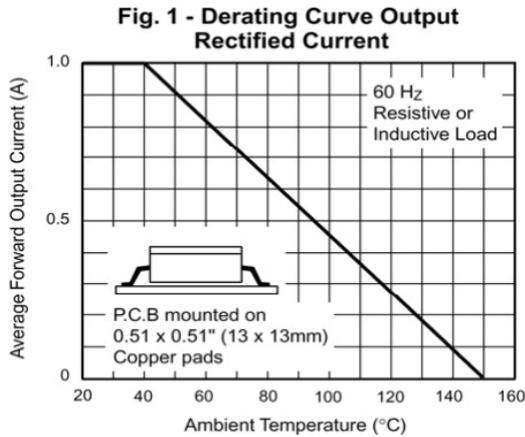
Note: 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

2- Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads.

DB101S THRU DB107S

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

RATING AND CHARACTERISTIC CURVES DB101S THRU DB107S



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.