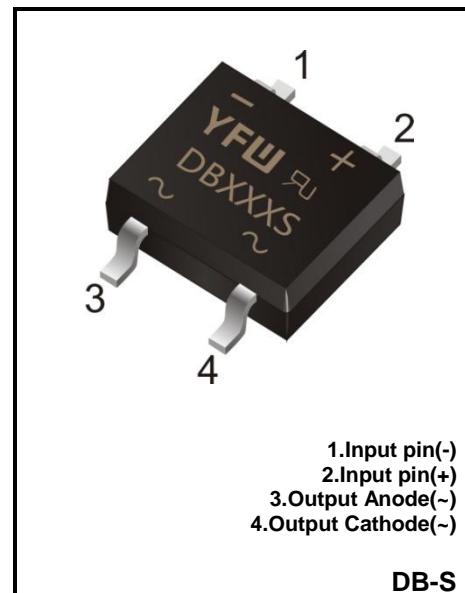


**1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE**
**RECTIFIER Reverse Voltage - 100 to 1000 V**
**Forward Current – 1.0A**
**FEATURES**

- ◆ High current capability
- ◆ Low forward voltage drop
- ◆ Glass Passivated Chip Junction
- ◆ Low power loss, high efficiency
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives


**MECHANICAL DATA**

- ◆ Case: DB-S
- ◆ Terminals: Solderable per MIL-STD-202, Method 208
- ◆ Approx. Weight: 0.4g / 0.02oz


**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

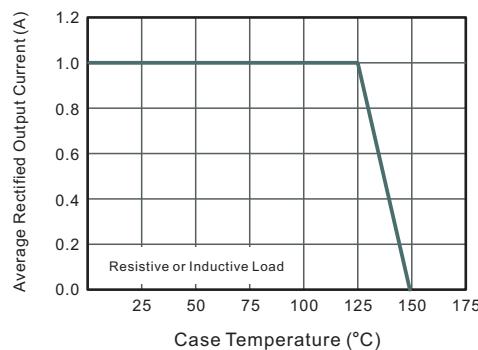
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current	$I_{(AV)}$	1						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	$I_{FSM}$	50						A
Forward Voltage per element @ $I_F = 1.0A$ and 25°C	$V_F$	1.1						V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$	5 500						$\mu A$
Typical Junction Capacitance (Note1)	$C_j$	25						pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}/ R_{\theta JC}$	40/15						°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150						°C

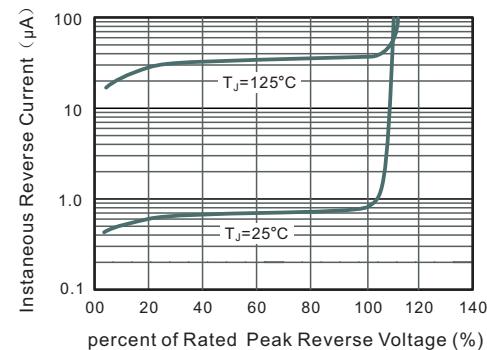
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

 (2) Mounted on glass epoxy PCB board with 4x1.5" x 1.5" (3.81x3.81 cm<sup>2</sup>) copper pad.

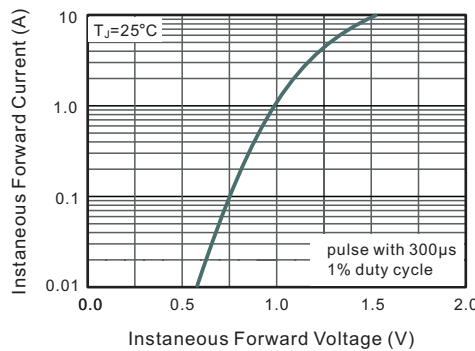
**Fig.1 Average Rectified Output Current Derating Curve**



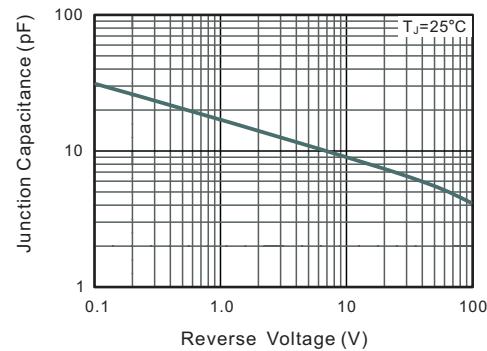
**Fig.2 Typical Reverse Characteristics**



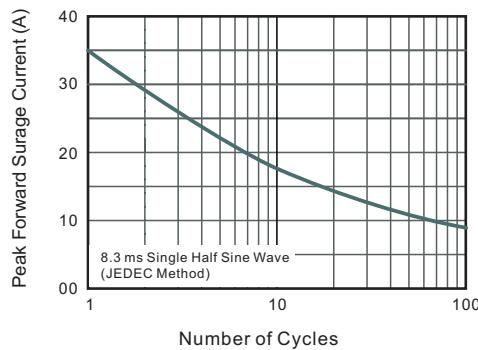
**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



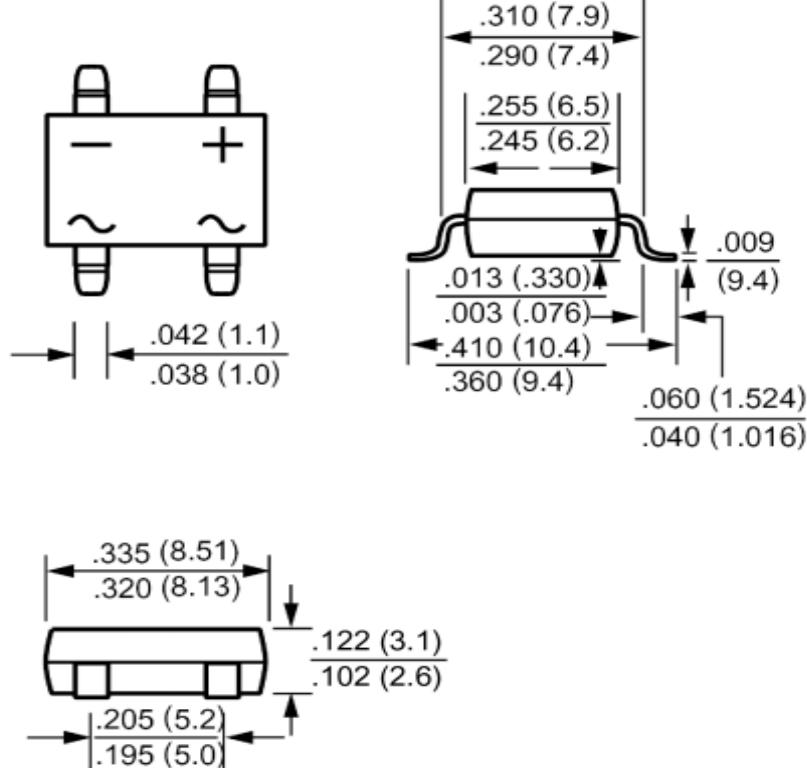
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Package Outline**

**DB-S**

Plastic surface mounted package; 4leads



**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
DB-S	Tape/Reel,13"reel	1500	EIA-481-1