

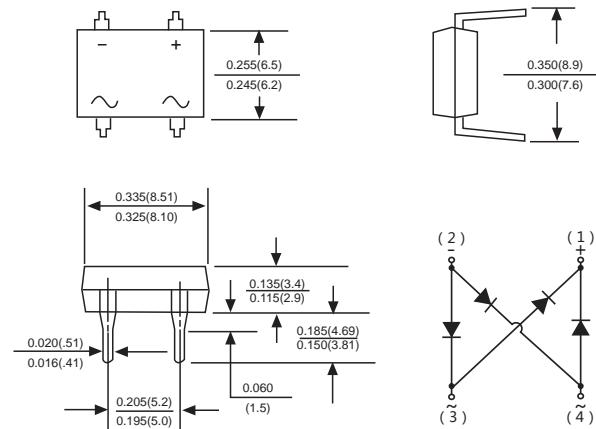


SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability

DB

RoHS
COMPLIANT

Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DB Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method

2026 Polarity : Polarity symbol marking on case

Mounting Position : Any

Weight : 0.02 ounce, 0.4 grams

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 current derate by 20%.

Parameter	SYMBOLS	MDD	MDD	MDD	MDD	MDD	MDD	MDD	UNITS
		DB101	DB102	DB103	DB104	DB105	DB106	DB107	
Marking Code									
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T _C =40°C	I _{F(AV)}					1.0			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					30			A
Maximum instantaneous forward voltage drop per leg at 1A	V _F				1.1				V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R				10 500				µA µA
Operating temperature range	T _J				-55 to +150				°C
storage temperature range	T _{STG}				-55 to +150				°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C. board with 0.51" x 0.51" (13x13mm) copper pads.



Ratings And Characteristic Curves

Fig. 1 Derating Curve for Output Rectified Current

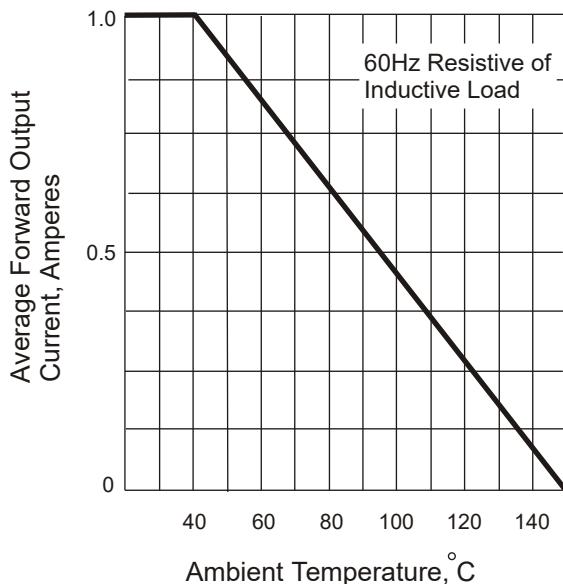


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

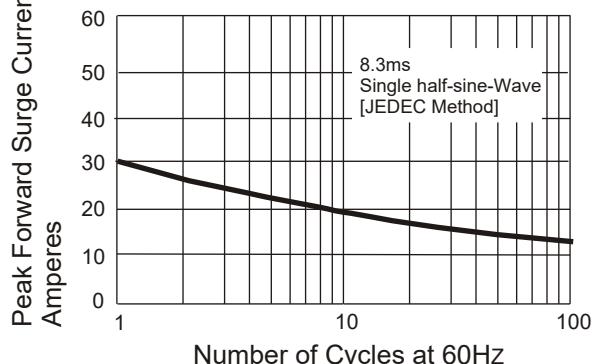


Fig. 4 Typical Revers Characteristics

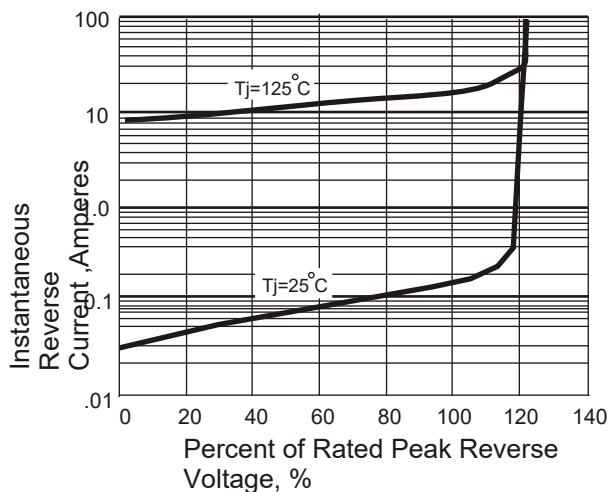
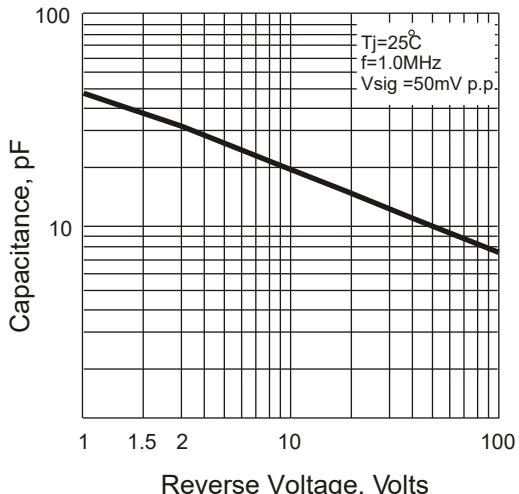


Fig. 5 Typical Junction Capacitance



The curve above is for reference only.