



YENYO

DB101 THRU DB107

Glass Passivated Bridge Rectifier

Features

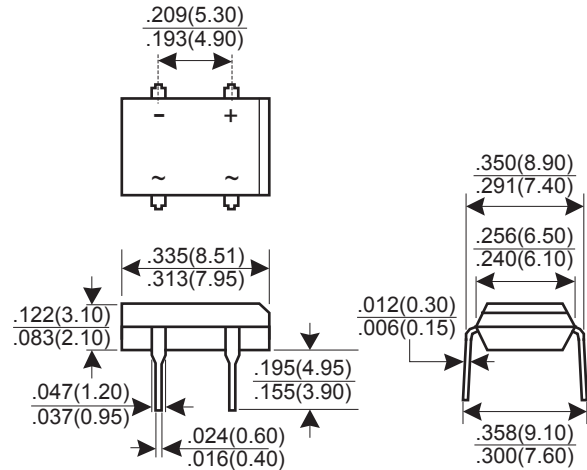
- ★ Glass passivated die construction
- ★ Low forward voltage drop
- ★ High current capability
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic DB-M
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Plated leads solderable per MIL-STD-202, Method 208
- ★ Polarity: As marked on Body
- ★ Mounting position: Any

**Voltage Range 50 to 1000 V
Current 1.0 Ampere**

DB-M



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	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current $T_A=40^\circ\text{C}$	$I_{(AV)}$	1.0								A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	50								A
Maximum Instantaneous Forward Voltage @ 1.0 A	V_F	1.1								V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	5.0 500								 uA
Operating Junction Temperature Range	T_J	-55 to +150								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150								$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES DB101 THRU DB107

FIG.1 - FORWARD CURRENT DERATING CURVE

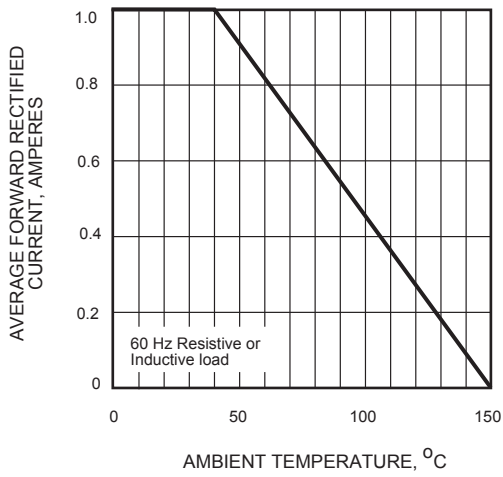


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

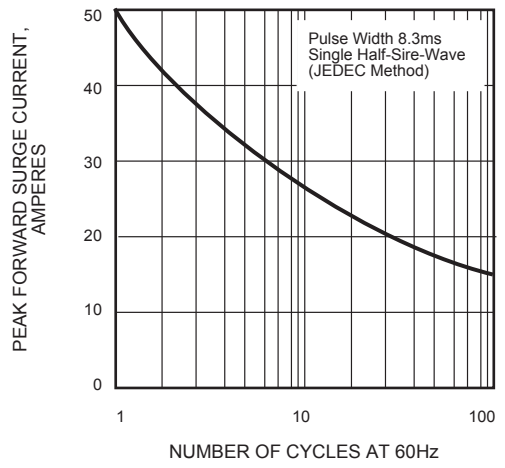


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

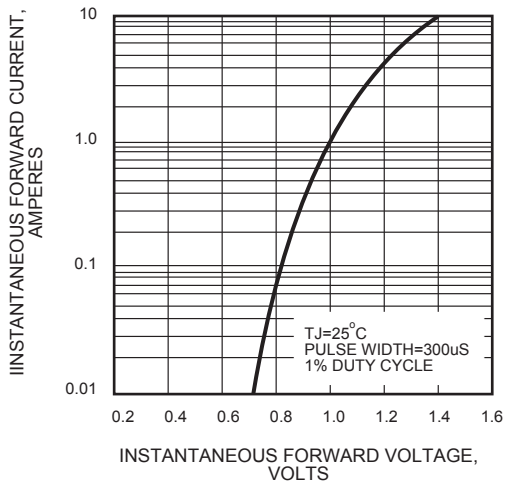


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

