

# Glass Passivated Bridge Rectifiers

## DB101-G Thru. DB107-G

Reverse Voltage: 50 to 1000V

Forward Current: 1.0A

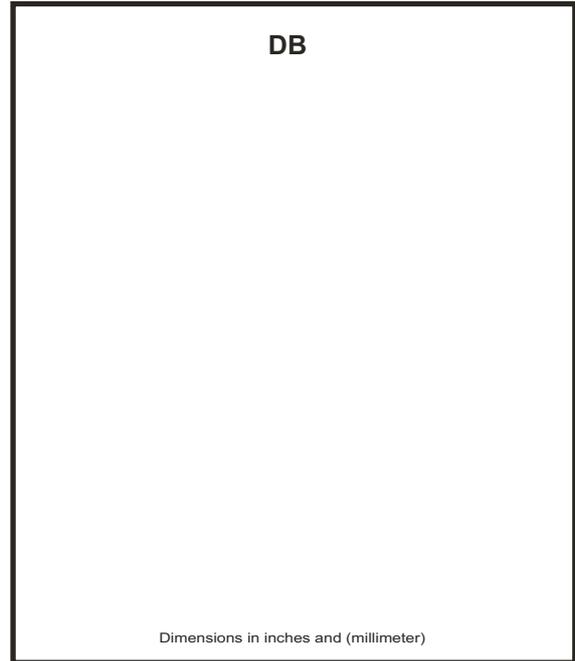
RoHS Device

### Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop

### Mechanical Data

- Polarit: As marked on Body
- Mounting position: Any
- Weight: 0.53 grams



### 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-G	DB102-G	DB103-G	DB104-G	DB105-G	DB106-G	DB107-G	Unit
Maximum Reverse Peak Repetitive 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 @ $T_A=40^\circ C$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	$I_{FSM}$	30							A
$I^2 t$ Rating For Fusing (t)	$I^2 t$	10.4							$A^2 s$
Maximum Forward Voltage At 1.0A DC	$V_F$	1.1							V
	$I_R$	10 500							$\mu A$
Typical Junction Capacitance (Note 1)	$C_J$	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 ~ +150							
Storage Temperature Range	$T_{STG}$	-55 ~ +150							$^\circ C$

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5"×0.5" (13×13mm) copper pads.