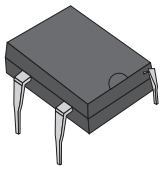
Glass Passivated Bridge Rectifiers

DB101-G Thru. DB107-G

Reverse Voltage: 50 to 1000V
Forward Current: 1.0A
RoHS Device



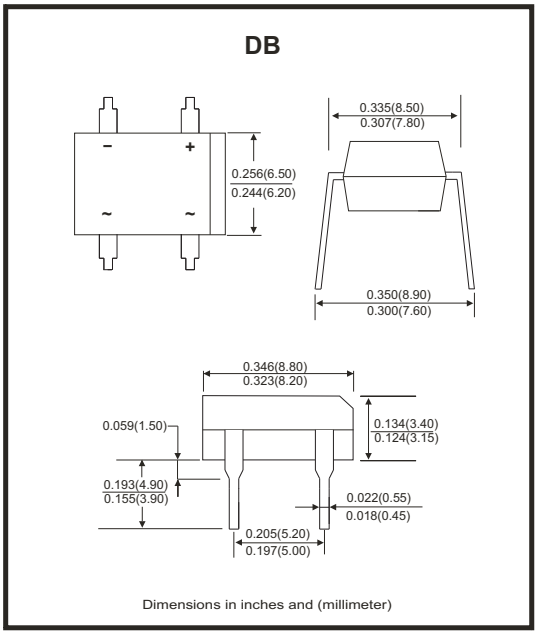
Features

-Rating to 1000V PRV

-Ideal for printed circuit board

-Low forward voltage drop

-High current capability



Mechanical Data

-Case: DB, molded plastic

-Epoxy: UL 94-V0 rate flame retardant.

-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°C	$I_{(AV)}$	1.0							A
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	30							A
I^2t Rating For Fusing (t＜8.3ms)	I^2t	10.4							A^2s
Maximum Forward Voltage At 1.0A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=125°C	I_R	10 500							μA
Typical Junction Capacitance (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Operating Temperature Range	T_J	-55 ~ +150							°C
Storage Temperature Range	T_{STG}	-55 ~ +150							°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.

Rating and Characteristics Curves (DB101-G Thru. DB107-G)

Fig.1 - Forward Current Derating Curve

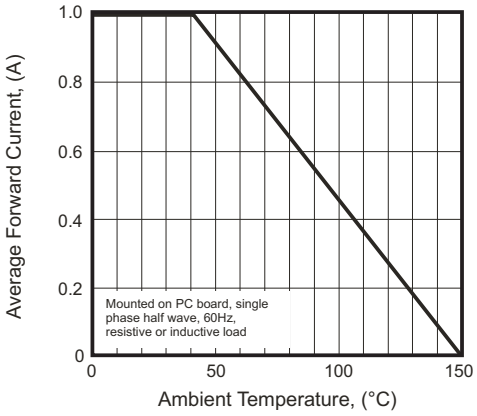


Fig.2 - Typical Forward Characteristics

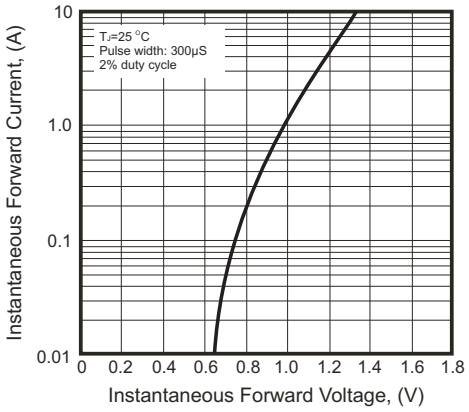


Fig.3 - Maximum Non-repetitive Surge Current

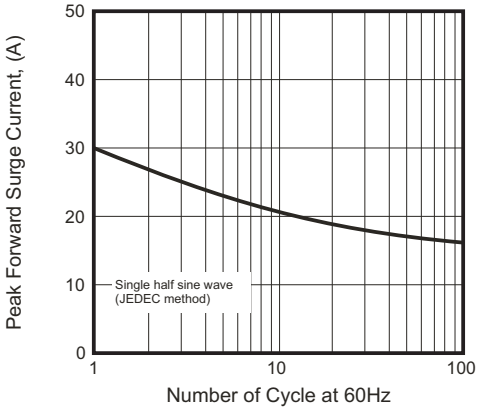


Fig.4 - Typical Junction Capacitance

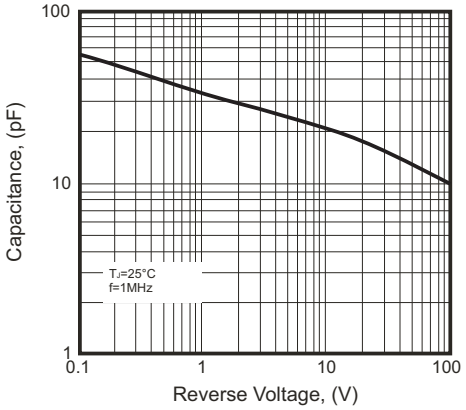
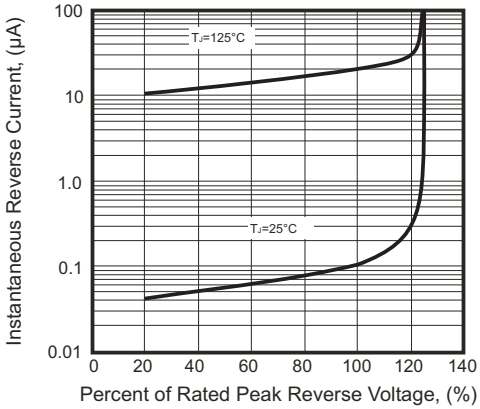


Fig.5 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
DB101-G	DB101
DB102-G	DB102
DB103-G	DB103
DB104-G	DB104
DB105-G	DB105
DB106-G	DB106
DB107-G	DB107

Standard Packaging

Case Type	TUBE PACK	
	TUBE (pcs)	BOX (pcs)
DB	50	2,500