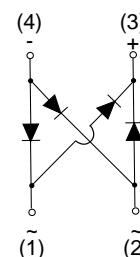
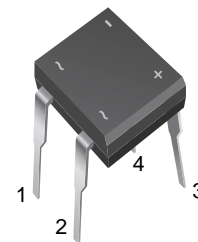


Single Phase Glass Passivated Bridge Rectifiers

Features

- Glass passivated junction
- The plastic material used carries Underwriters
- Laboratory flammability recognition 94V-0
- Surge overload ratings to 50 amperes peak
- Ideal for printed circuit board application
- Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical Data

- Case: DB
- Terminals: Plate leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols molded or Marked on body
- Approx. Weight: 0.32g
- Mounting position: Any

Ordering Information

Part Number	Shipping	Packing Type
DB101 THRU DB107	2500PCS/Box	Box

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.
 For Capacitive load derate current by 20%

Parameter	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at T _A =40°C	I _{F(AV)}	1.0							A
Peak forward surge current 8.3ms single sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}	45							A
Typical Junction capacitance Per Element(Note 1)	C _j	16							pF
Typical thermal resistance (Note 2)	R _{θJA}	63							°C/w
Operating j temperature range	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C
Maximum instantaneous forward voltage drop per leg at 1.0A	V _F	1.1							V
Maximum DC reverse current at ratde T _A =25°C DC blocking voltage per element T _A =125°C	I _R	5 500							μA

Notes: (1) Measured at 1.0MHz and applied reverse voltage of 4.0 V DC.

(2) Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5(13*13mm) copper pads.



Characteristics Curves

FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

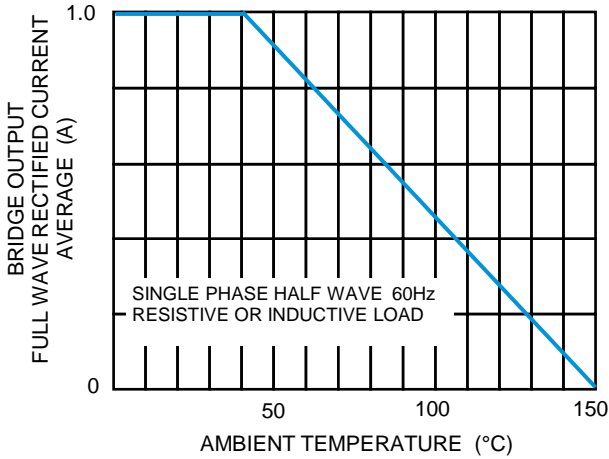


FIG.2 MAXIMUM NON-REPETITIVE SURNGE CURRENT

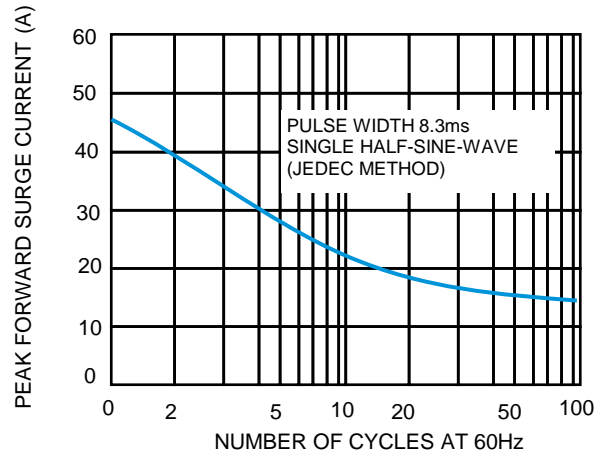


FIG.3 TYPICAL JUNCTION CAPACITANCE

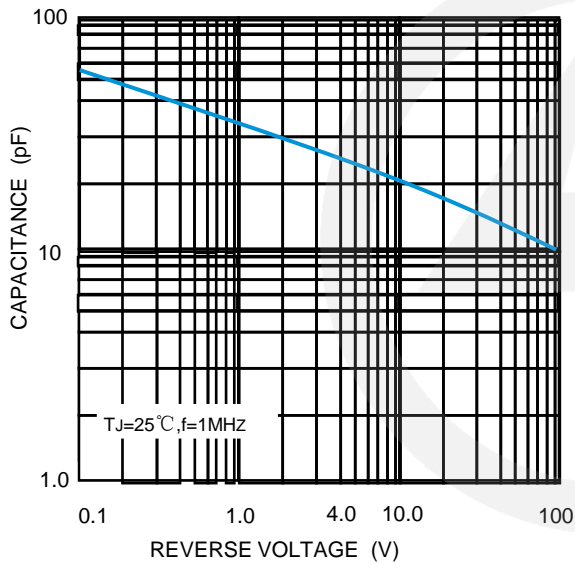


FIG.4 TYPICAL FORWARD CHARACTERISTICS

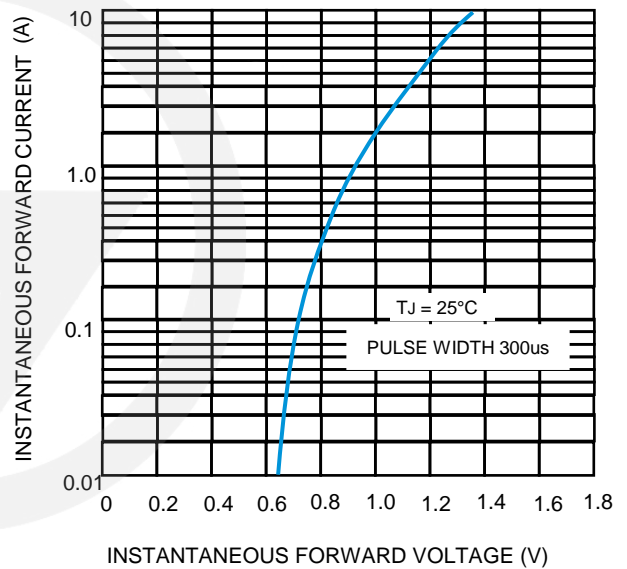
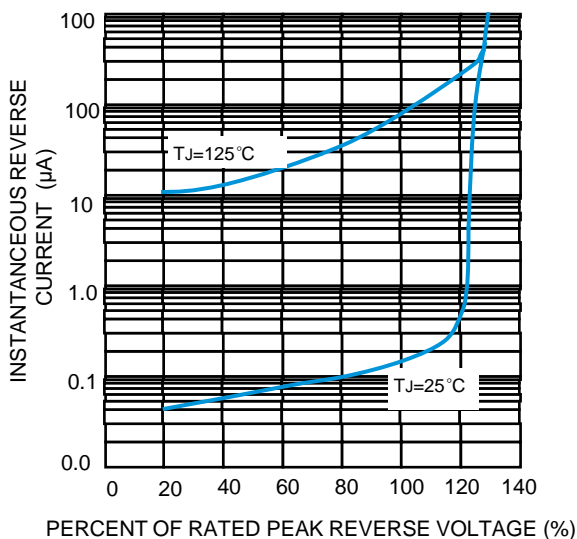
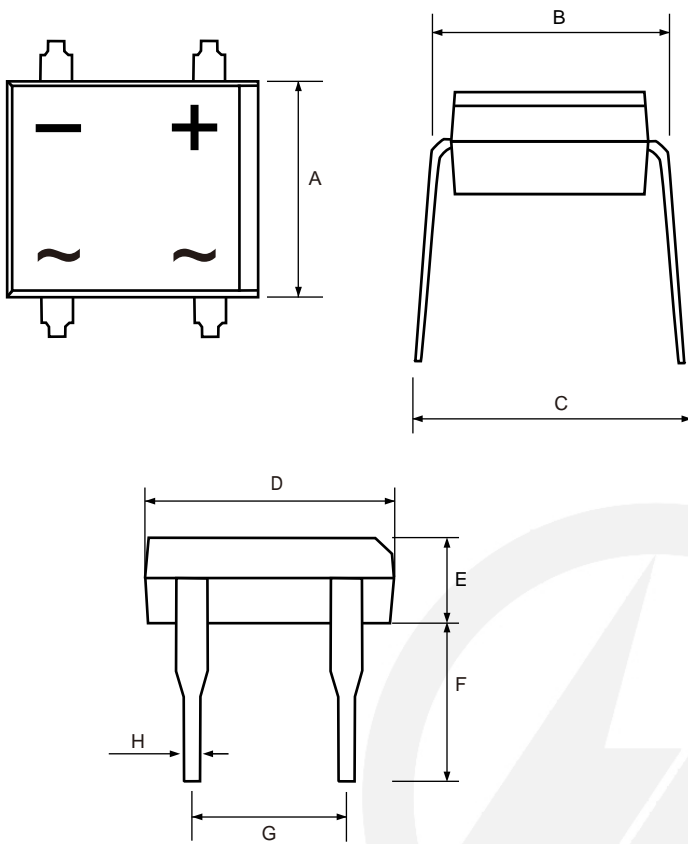


FIG.5 TYPICAL REVERSE CHARACTERISTICS



DB Package Outline



Unit: mm

SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	6.20	6.50
B	7.20	8.00
C	7.60	8.90
D	7.80	8.80
E	2.20	3.00
F	3.90	4.90
G	5.00	5.20
H	0.45	0.55

Marking

Type number	Marking code
DB101	DB101
DB102	DB102
DB103	DB103
DB104	DB104
DB105	DB105
DB106	DB106
DB107	DB107

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Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision Content	Revision Reason	Revision Person	Note
01	2025.08.03	2025.08.03	3.0	New file	/	Ding	