



Single Phase Glass Passivated Bridge Rectifiers	Reverse Voltage: 50V to 1000V Forward Current: 1.0 Amp
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Features

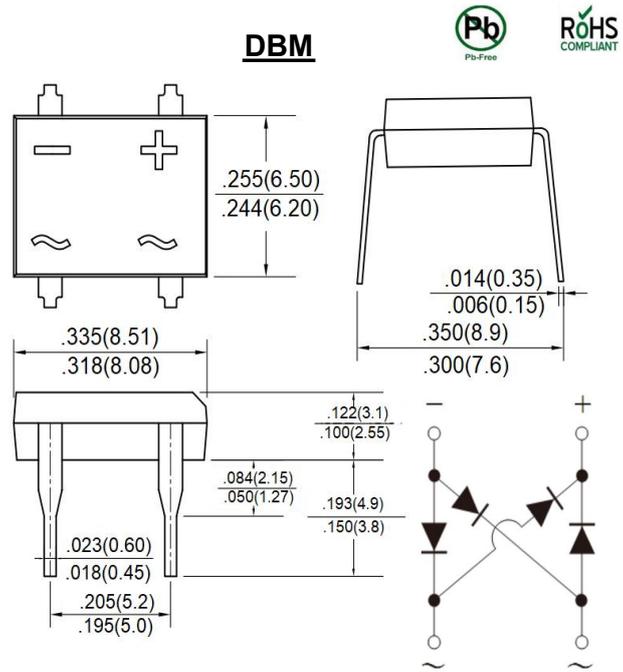
- Glass passivated chip junction
- Ideal for automated placement
- Low leakage current
- High forward surge capability

Mechanical Data

- **Package:** DBM
Molding compound meets UL 94 V-0 flammability rating
- **Terminals:** Matte tin plated leads, solderable per MIL-STD-750, Method 2026
- **Polarity:** Symbol marking on body

Typical Applications

Suitable for AC to DC bridge full wave rectification for SMPS, LED lighting, adapter, battery charger, home appliances, office equipment, and telecommunication applications.



Maximum Ratings and Electrical Characteristics (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions	SYM.	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
Device marking code		DB101	DB102	DB103	DB104	DB105	DB106	DB107	
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 Output Rectified Current (see Fig. 1)	IO(AV)	1.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load	IFSM	30							A
Operating junction range	Tj	-55 to+150							°C
Storage temperature range	TSTG	-55 to+150							°C

Thermal Characteristics (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions	SYM.	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
Maximum Thermal Resistance per Leg, Junction To Lead (Note 1)	RθJL	15							°C/W
Maximum Thermal Resistance per Leg, Junction To Ambient (Note 1)	RθJA	40							°C/W

Electrical Characteristics (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions	SYM.	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit	
Maximum Instantaneous Forward Voltage per diode	IF= 1A	VFM	1.10							V
Maximum DC reverse current at rated DC blocking voltage per diode	TA = 25°C	IR	5							µA
	TA = 125°C		100							

Notes:

1. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.5" x 0.5" (13 mm x 13 mm) copper pads.

Rating and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED

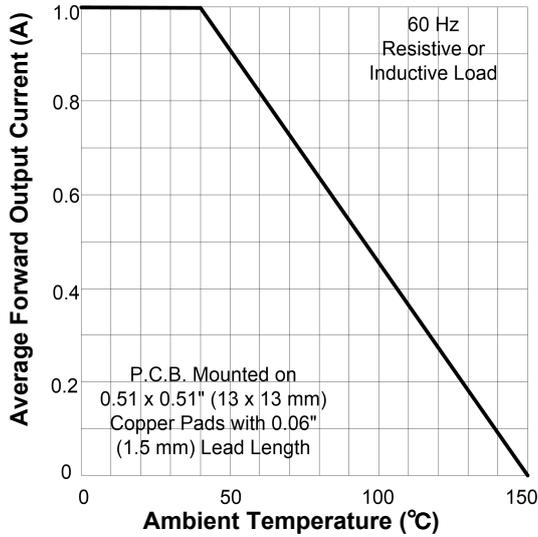


FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode

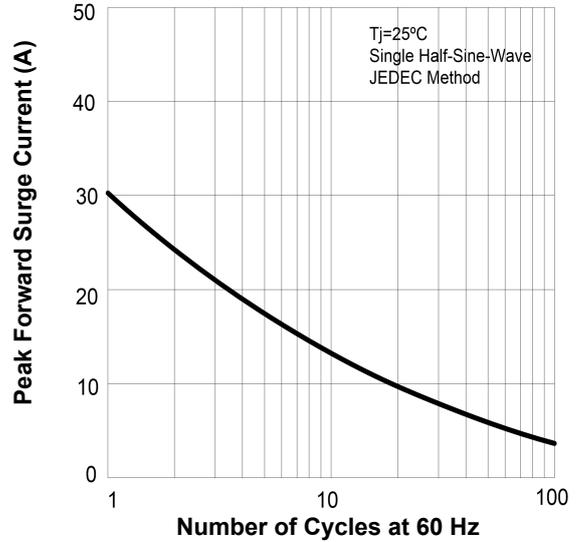


FIG. 3- TYPICAL FORWARD VOLTAGE

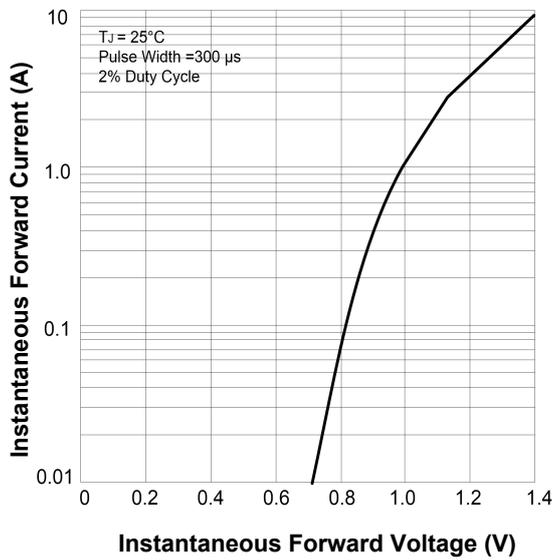
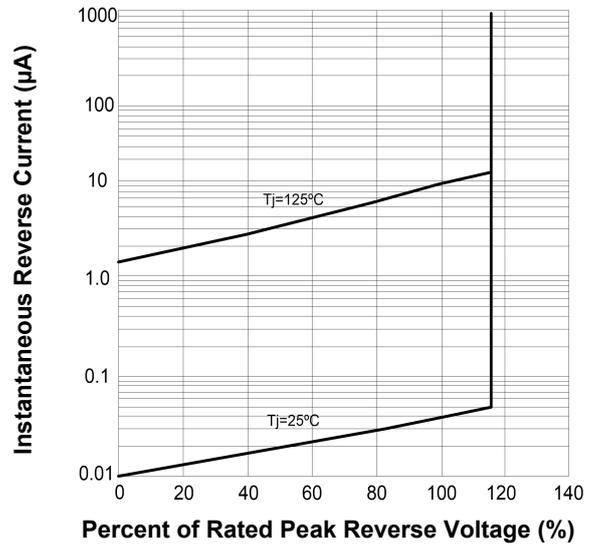


FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS



The curve above is for reference only.



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