

<b>Single Phase Glass Passivated Bridge Rectifiers</b>	<b>Reverse Voltage: 50V to 1000V</b> <b>Forward Current: 1.5 Amp</b>
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**Features**

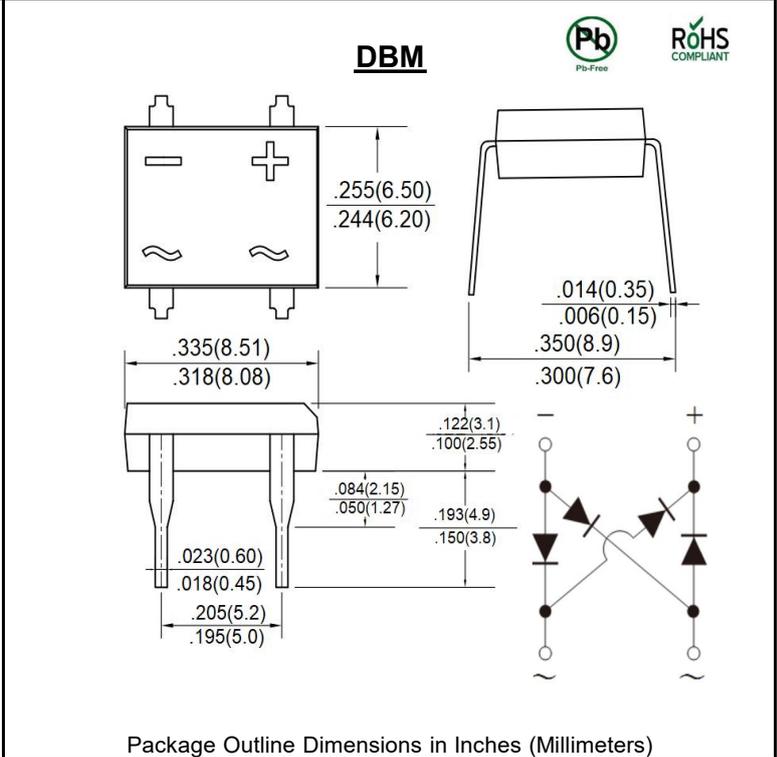
- Glass passivated chip junction
- Ideal for automated placement
- Low leakage current
- High forward surge capability

**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.	DB151	DB152	DB153	DB154	DB155	DB156	DB157	Unit
Device marking code		DB151	DB152	DB153	DB154	DB155	DB156	DB157	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current (see Fig. 1)	I <sub>O(AV)</sub>	1.5							A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load	I <sub>FSM</sub>	50							A
Operating junction range	T <sub>J</sub>	-55 to+150							°C
Storage temperature range	T <sub>STG</sub>	-55 to+150							°C

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

Parameter&Test Conditions	SYM.	DB151	DB152	DB153	DB154	DB155	DB156	DB157	Unit
Maximum Thermal Resistance per Leg, Junction To Lead (Note 1)	R <sub>θJL</sub>	15							°C/W
Maximum Thermal Resistance per Leg, Junction To Ambient (Note 1)	R <sub>θJA</sub>	40							°C/W

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

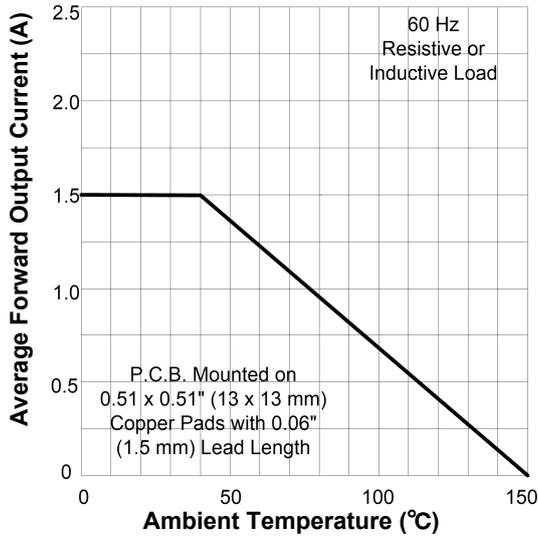
Parameter&Test Conditions	SYM.	DB151	DB152	DB153	DB154	DB155	DB156	DB157	Unit	
Maximum Instantaneous Forward Voltage per diode	IF= 1.5A	V <sub>FM</sub>	1.10							V
Maximum DC reverse current at rated DC blocking voltage per diode	T <sub>A</sub> = 25°C	I <sub>R</sub>	5							µA
	T <sub>A</sub> = 125°C		100							

Notes:

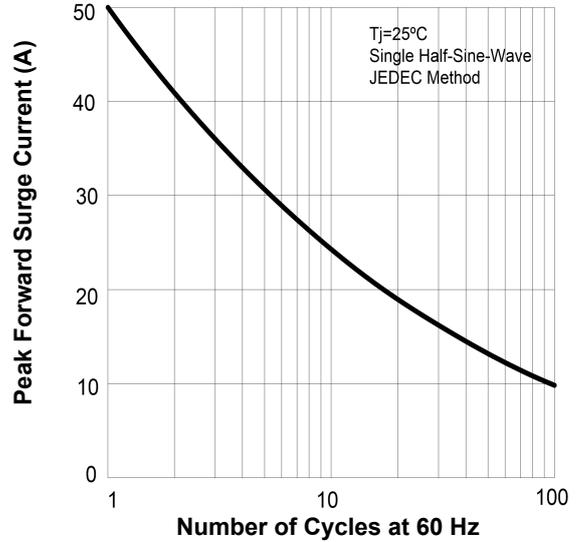
1. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.5" x 0.5" (13 mm x 13 mm) copper pads.

**Rating and Characteristic Curves**

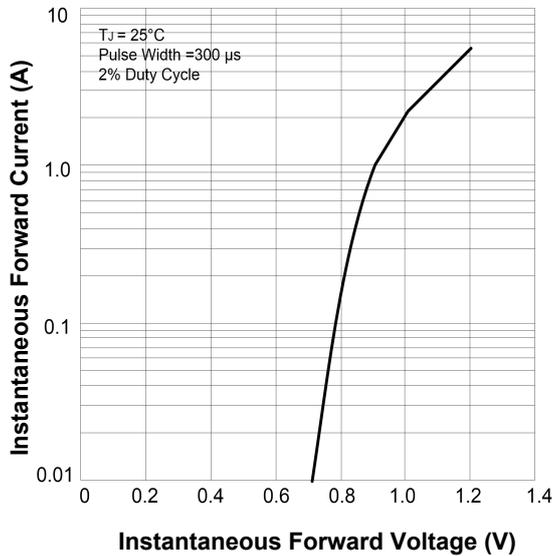
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED**



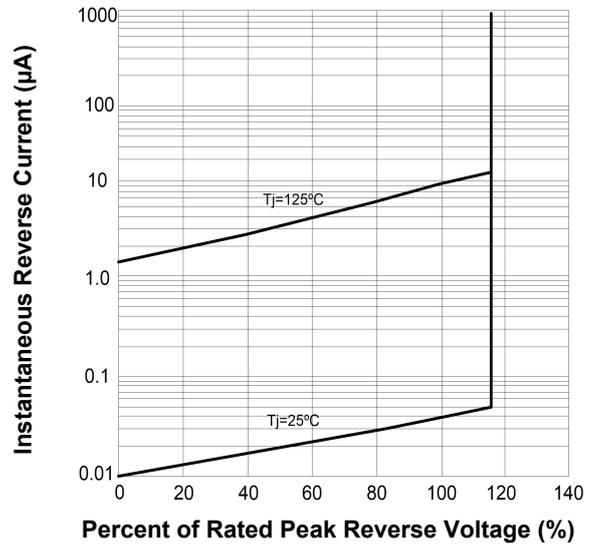
**FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode**



**FIG. 3- TYPICAL FORWARD VOLTAGE**



**FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



The curve above is for reference only.



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