

# DB101 - DB107

**PRV : 50 - 1000 Volts**

**Io : 1.0 Ampere**

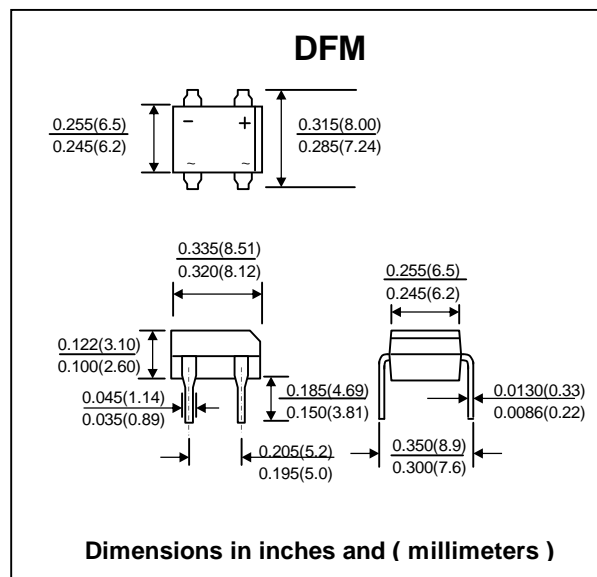
**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Ideal for printed circuit board
- \* **Pb / RoHS Free**

**MECHANICAL DATA :**

- \* Case : Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Terminals : Plated Lead solderable per MIL-STD-202, Method 208
- \* Polarity : Polarity symbols marked on body
- \* Mounting position : Any
- \* Weight : 0.42 gram

## SURFACE MOUNT BRIDGE RECTIFIERS



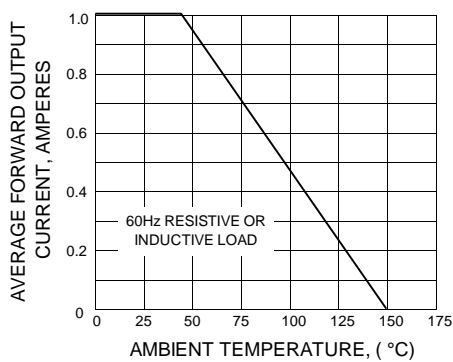
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
60 Hz, resistive or inductive load.

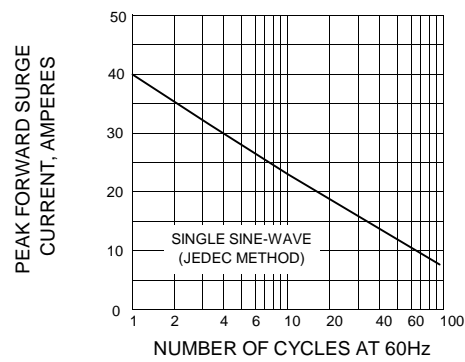
RATING	SYMBOL	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current at Ta = 40°C	I <sub>F(AV)</sub>	1.0							A
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	40							A
Maximum Instantaneous Forward Voltage per element at I <sub>F</sub> = 1.0 A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current Ta = 25°C	I <sub>R</sub>	5.0							µA
at Rated DC Blocking Voltage Ta = 125°C	I <sub>R(H)</sub>	500							µA
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 55 to + 150							°C

**RATING AND CHARACTERISTIC CURVES ( DB101 - DB107 )**

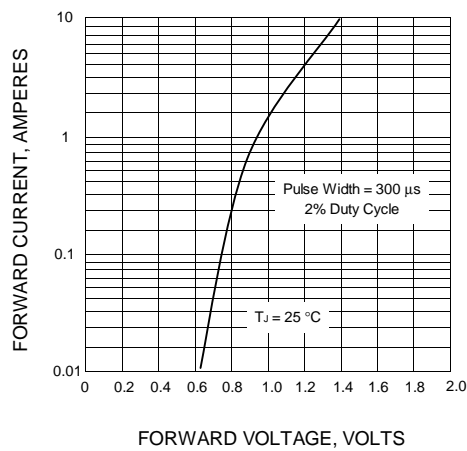
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**

