

# DB01M

**PRV : 100 Volts**

**Io : 1.0 Ampere**

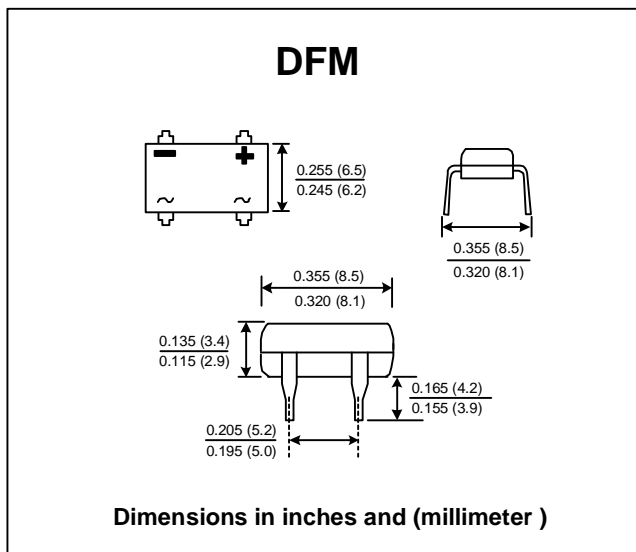
**FEATURES :**

- \* 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

## SILICON BRIDGE RECTIFIER



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	VDC	100	V
Maximum Average Forward Output Rectified Current at Ta = 40°C	IF(AV)	1.0	A
Maximum Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	50	A
Current Squared Time at t < 8.3 ms.	I <sup>2</sup> t	10	A <sup>2</sup> S
Maximum Instantaneous Forward Voltage per element at IF = 1.0 A	VF	1.1	V
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 125°C	IR	10	μA
	IR(H)	500	μA
Junction and Storage Temperature Range	TJ, TSTG	- 55 to + 150	°C

**Note :** (1) Measured at 1.0 MHz and applied reverse voltage of 4.0VDC



### RATING AND CHARACTERISTIC CURVES ( DB01M )

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

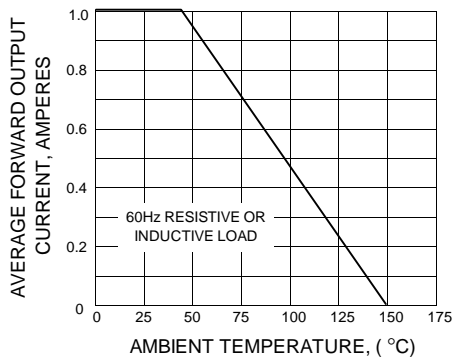


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

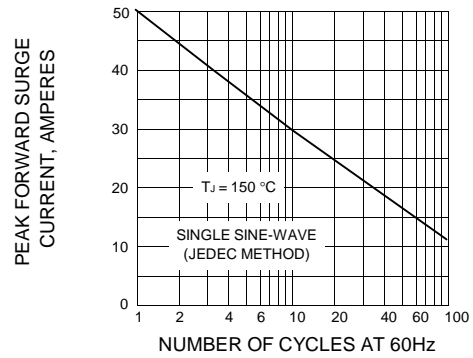


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

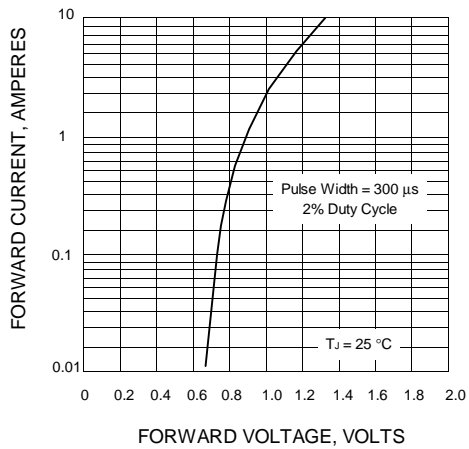


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

