

# 1(B,G,J)4B42

PRV : 100 ~ 600 Volts

Io : 1.0 Ampere

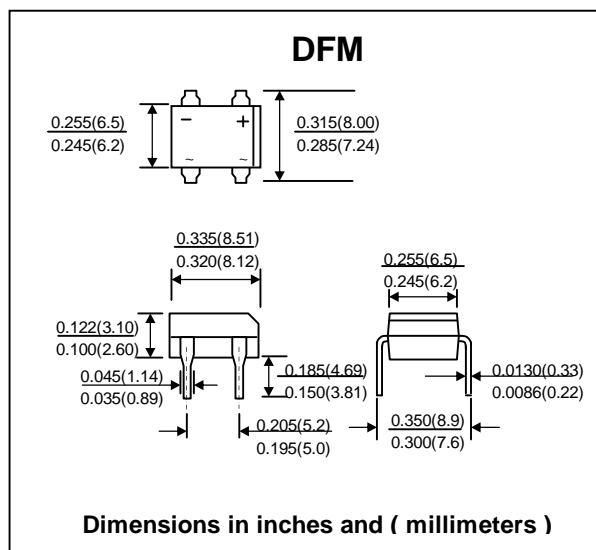
## FEATURES :

- \* 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



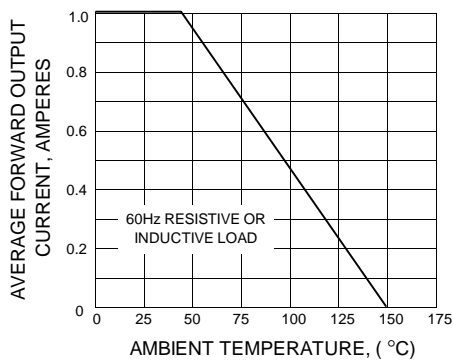
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

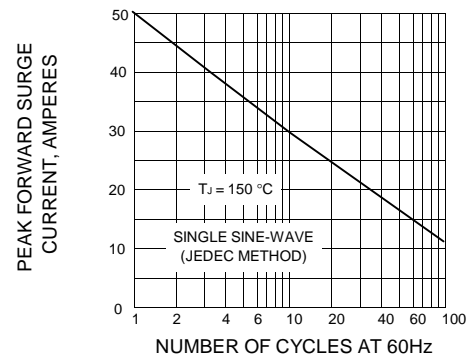
RATING	SYMBOL	1B4B42	1G4B42	1J4B42	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	400	600	V
Maximum Average Forward Output Current	I <sub>F(AV)</sub>	1.0			A
Maximum Peak One Cycle Surge Forward Current ( Non-Repetitive )	I <sub>FSM</sub>	30 ( 50Hz )			A
		33 ( 60Hz )			
Maximum Instantaneous Forward Voltage per element at I <sub>F</sub> = 1.0 A	V <sub>F</sub>	1.0			V
Maximum Repetitive Peak Reverse Current at V <sub>RRM</sub> = Rated	I <sub>R</sub>	10			μA
Maximum Thermal Resistance (Junction to Ambient)	R <sub>θJA</sub>	75			°C/W
Junction Temperature	T <sub>J</sub>	- 40 to + 150			°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150			°C

## RATING AND CHARACTERISTIC CURVES ( 1(B,G,J)J4B42

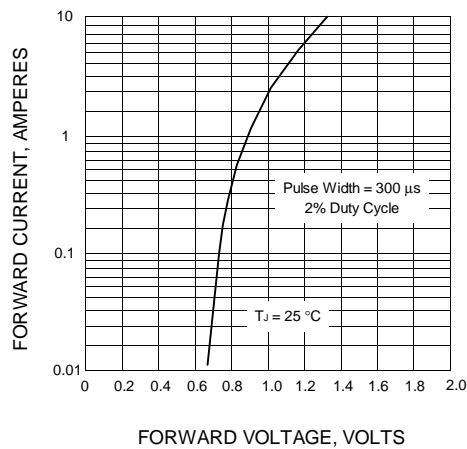
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**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**

