

1(B,G,J)4B42

PRV : 100 ~ 600 Volts

I_o : 1.0 Ampere

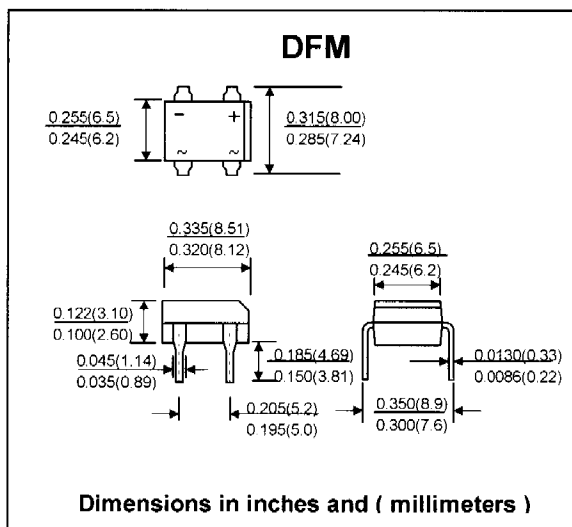
FEATURES :

- * 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 _{RRM}	100	400	600	V
Maximum Average Forward Output Current	I _{F(AV)}	1.0			A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	30 (50Hz)			A
		33 (60Hz)			
Maximum Instantaneous Forward Voltage per element at I _F = 1.0 A	V _F	1.0			V
Maximum Repetitive Peak Reverse Current at V _{RRM} = Rated	I _R	10			μA
Maximum Thermal Resistance (Junction to Ambient)	RθJA	75			°C/W
Junction Temperature	T _J	- 40 to + 150			°C
Storage Temperature Range	T _{STG}	- 40 to + 150			°C

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

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

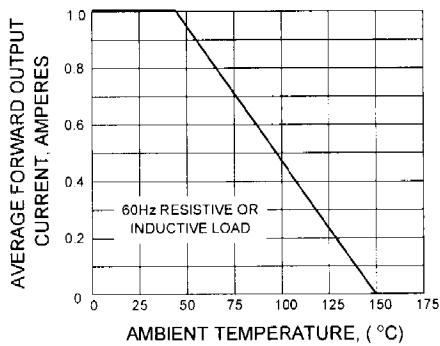


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

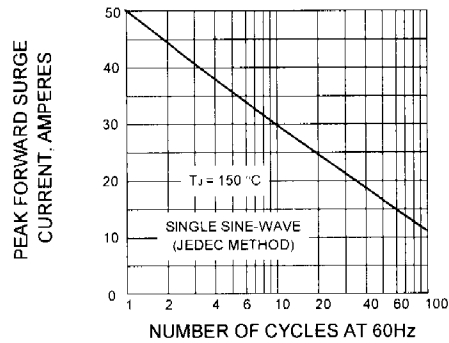


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

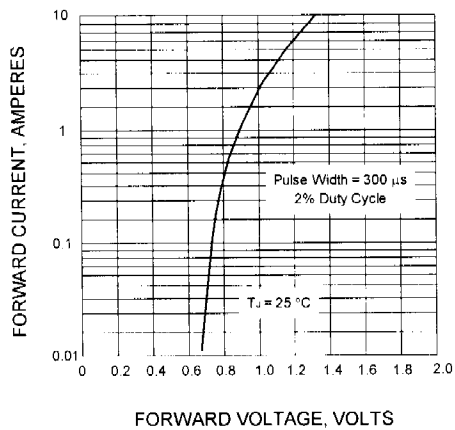


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

