Certificate Number: Q10561

Certificate Number: E17276

1(B,G,J)4B42

SILICON BRIDGE RECTIFIER

PRV : 100 ~ 600 Volts
Io : 1.0 Ampere

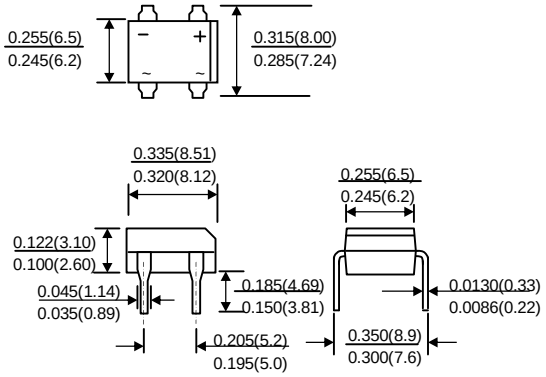
FEATURES :

* 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

DFM



Dimensions in inches and (millimeters)

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

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

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

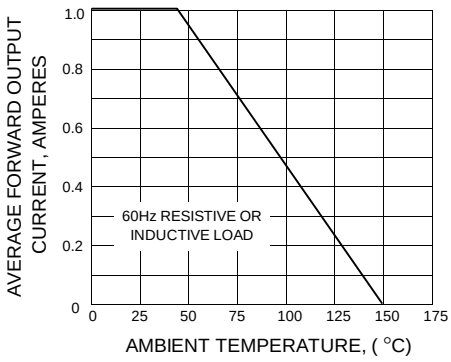


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

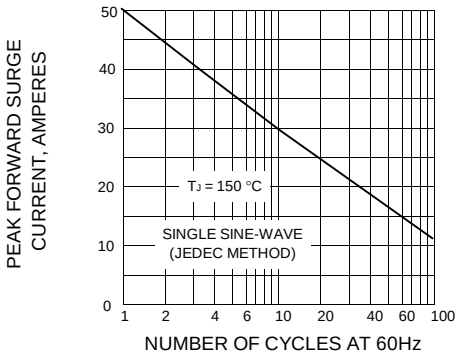


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

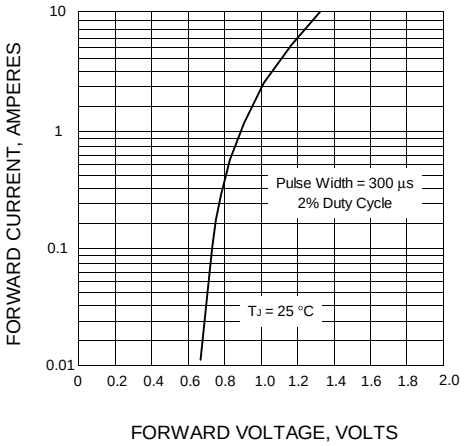


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT