







1(B,G,J)4B42

PRV: 100 ~ 600 Volts

lo: 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

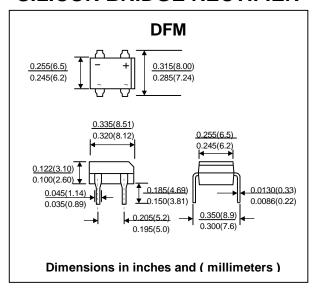
* Terminals : Plated Lead solderable per MIL-STD-

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 $25\,^{\circ}\text{C}$ ambient temperature unless otherwise specified. 60 Hz, resistive or inductive load.

RATING	SYMBOL	1B4B42	1G4B42	1J4B42	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	100	400	600	V
Maximum Average Forward Output Current	lF(AV)	1.0			Α
Maximum Peak One Cycle Surge Forward	IFSM	30 (50Hz)			A
Current (Non-Repetitive)	IFSM	33 (60Hz)			
Maximum Instantaneous Forward Voltage	VF	1.0		V	
per element at IF = 1.0 A	VF	1.0			
Maximum Repetitive Peak Reverse Current	l _R	10		μА	
at VRRM = Rated	IK				
Maximum Thermal Resistance (Junction to Ambient)	RθJA	75			°C/W
Junction Temperature	TJ	- 40 to + 150		°C	
Storage Temperature Range	Тѕтс	- 40 to + 150			°C

Page 1 of 2 Rev. 02 : March 25, 2005





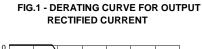


Certificate Number: Q10561

Certificate Number: E17276

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

PEAK FORWARD SURGE CURRENT, AMPERES



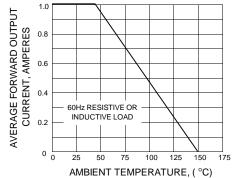


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

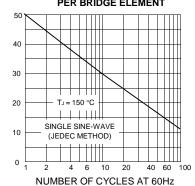


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

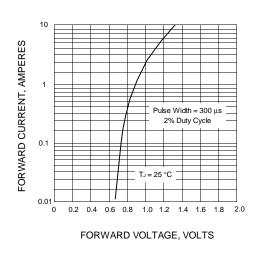
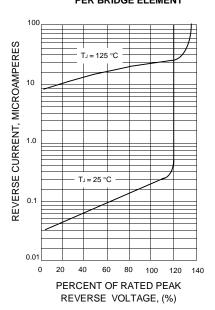


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Page 2 of 2 Rev. 02: March 25, 2005