

4.0A GLASS PASSIVATED BRIDGE RECTIFIER

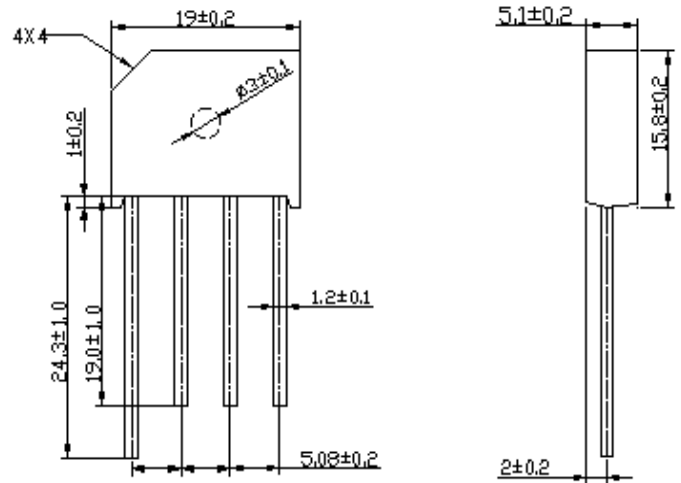
SILICON BRIDGE RECTIFIERS

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 5.15 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

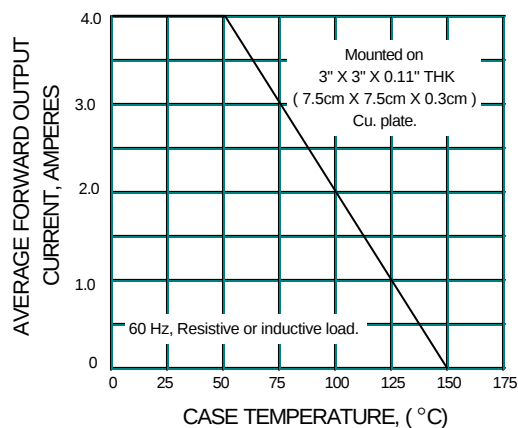
Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

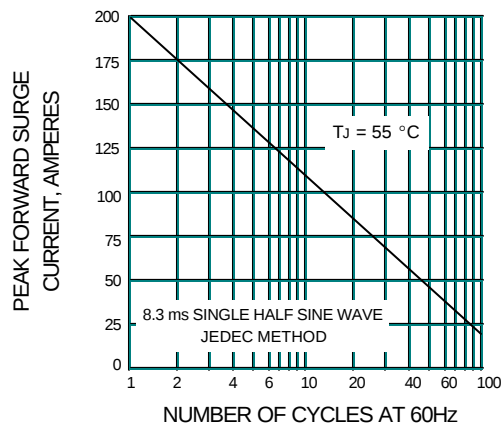
For capacitive load, derate current by 20%.

RATING	SYMBOL	KBL 400	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current $T_c=50^\circ\text{C}$	$I_F(AV)$	4.0							Amps.
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	200							Amps.
Rating for fusing ($t < 8.3 \text{ ms.}$)	I^2t	166							A^2S
Maximum Forward Voltage per Diode at $I_F = 4 \text{ Amps.}$	V_F	1.1							Volts
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$	I_R	10							μA
at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	$I_{R(H)}$	1.0							mA
Typical Thermal Resistance (Note 1)	$R\theta_{JA}$	10							$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 50 to + 150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 50 to + 150							$^\circ\text{C}$

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



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS
PER DIODE**

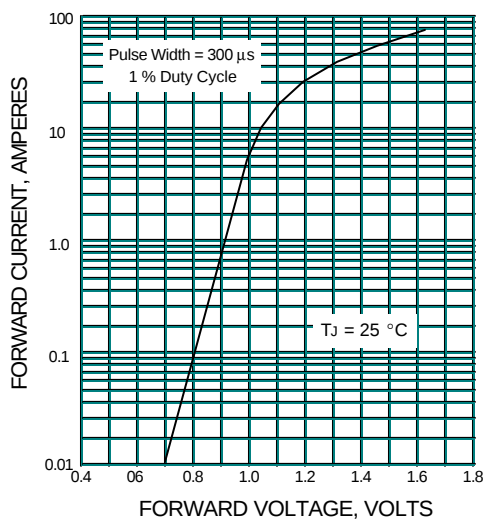


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

