KBJ4005 THRU KBJ410

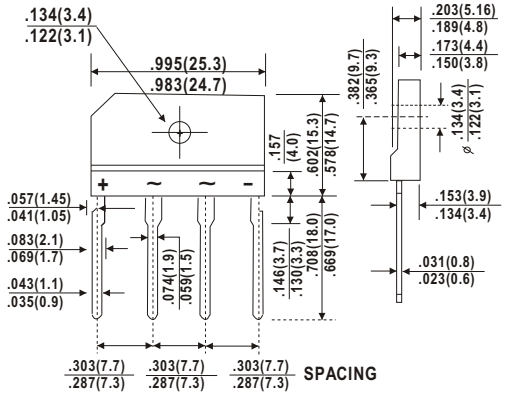
Silicon Bridge Rectifiers Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts
Current 4.0 Amperes

Features

* Surge overload rating - 150 amperes peak
* Ideal for printed circuit board
* Reliable low cost consturction utilizing
* Plastic material has Underwriters Laboratory Flammability Classification 94V-0
* Mounting Position: Any

KBJ



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%

CHARACTERISTICS	SYMBOL	KBJ 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward(with heatsink Note2) Rectified Current @ T_C = 100°C	$I_{(AV)}$	4.0 2.4							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	150							A
Maximum Forward Boltage at 2.0A DC	V_F	1.0							V
Maximum DC Reverse Current T_J=25°C at Rated DC Blocking Voltage T_J=125°C	I_R	5.0 500							uA
I' t Rating for fusing(t<8.3ms)	I'_t	93							A' S
Typical Junction Capacitance per element(Note1)	C_J	45							pF
Typical Thermal Resistance(Note 2)	$R_{\theta JC}$	2.2							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:

1.Measured at 1.0MHz and applied reverse voltage of 4.0 VDC.

2.Device mounted on 50mm x 50mm X1.6mm Cu Plate Heatsink

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RATINGS AND CHARACTERISTIC CURVES (KBJ4005 THRU KBJ410)

FIG . 1- FORWARD CURRENT DERATING CURVE

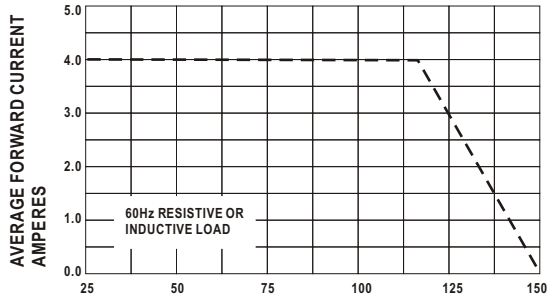


FIG . 2 - MAXIMUM NON - REPETITIVE SURGE CURRENT

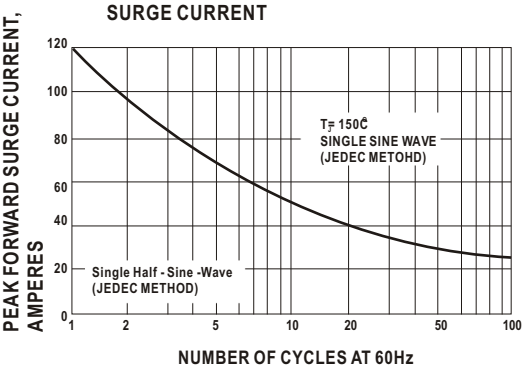


FIG . 2 - TYPICAL FORWARD CHARACTERISTICS

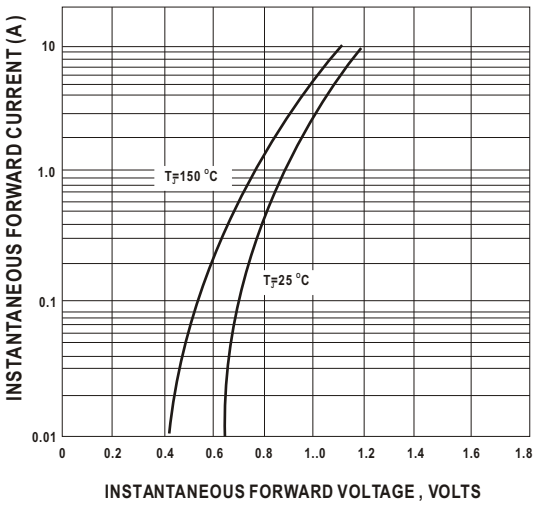


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

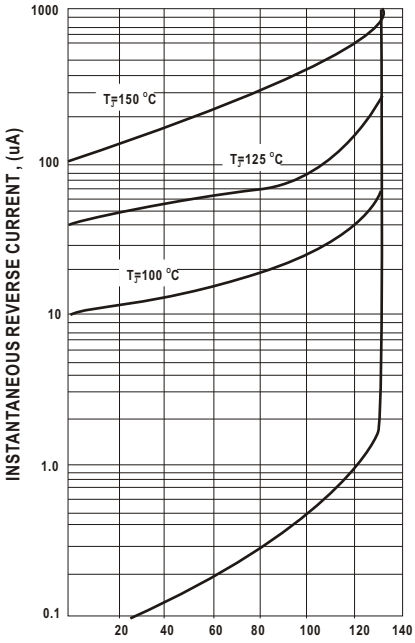
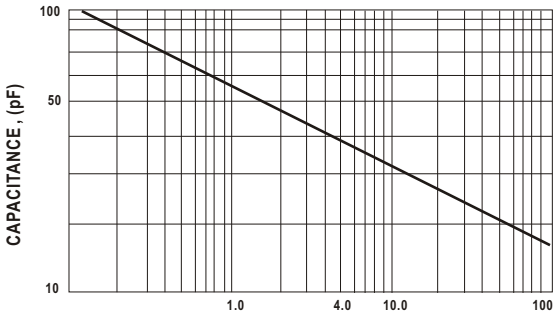


FIG . 4 - TYPICAL JUNCTION CAPACITANCE



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