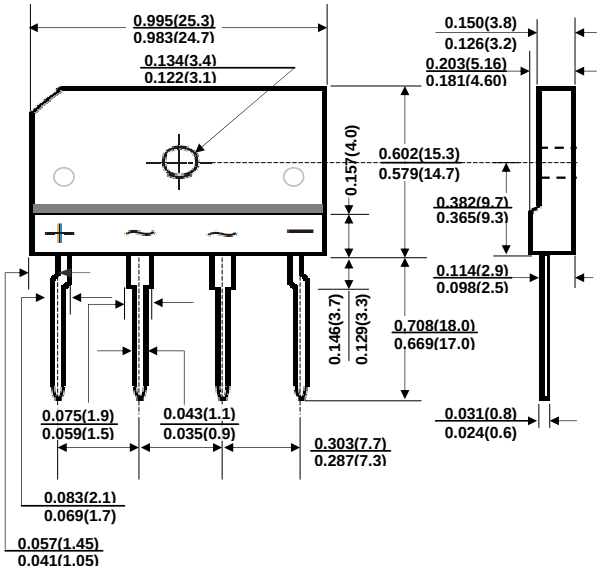
KBJ4005 THRU KBJ410

Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Ampere

KBJ-4



Dimensions in inches and (millimeters)

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop high current capablilty
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability

MECHANICAL DATA

Case: Molded plastic
Terminals: Solderable per MIL-STD-750，Method 2026
Lead: solder plated
Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

PARAMETER	*SYMBOLS*	KBJ 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	UNITS
Maximum repetitive 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
Minimum Reverse Breakdown Voltage at = 500μA	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TC=115℃	$I_{(AV)}$	4							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	120							A
Maximum Instantaneous Forward Voltage @ 4.0A	V_F	1.05							V
I2t Rating for fusing(t<8.3ms)	I^2t	32							A^2S
Dielectric Strength	V_{dis}	2							KV
Maximum DC Reverse Current @ TA=25℃ rated DC blocking voltage per leg TA = 125℃	I_R	10 250							μA
Typical Thermal Resistance (Note)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	Max.5.5 Max.6 Max.30							℃/W
Mounting Torque	T_{OR}	0.8							N·m
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note: 1. Device Mounted on 100×100×1.6mm Thick Al Plate Heatsink.
2. Device Mounted on P.C.B. without Heatsink

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RATINGS AND CHARACTERISTIC CURVES KBJ4005 THRU KBJ410

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

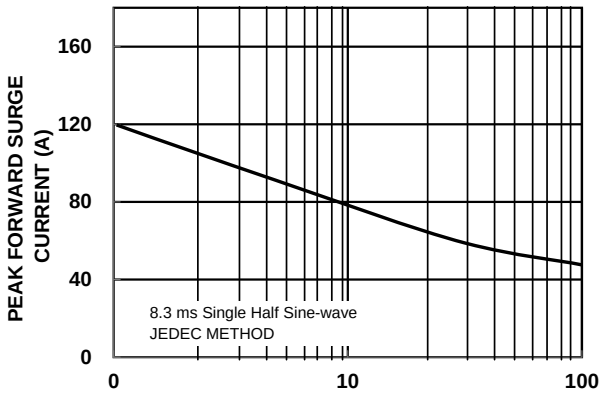

FIG. 2 MAXIMUM FORWARD CURRENT DERATING CURVE

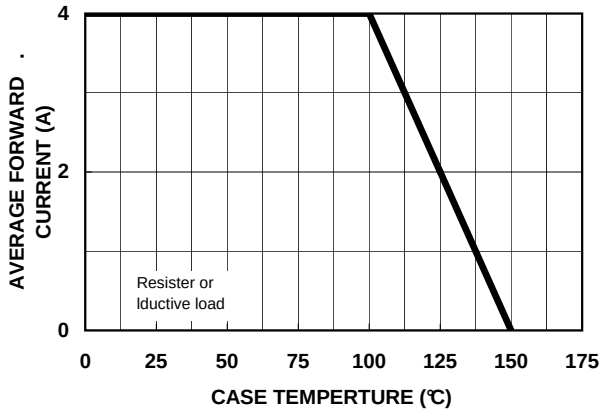

FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

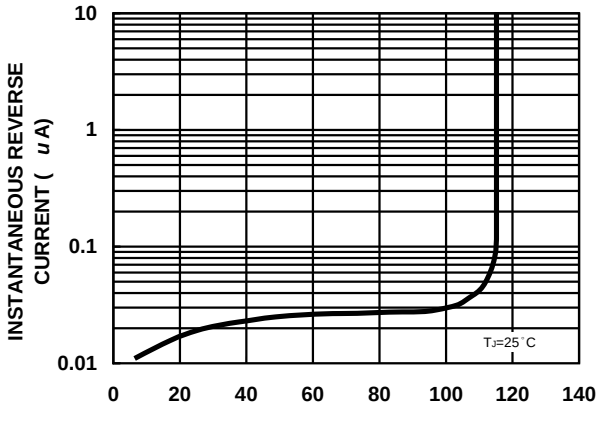

FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT