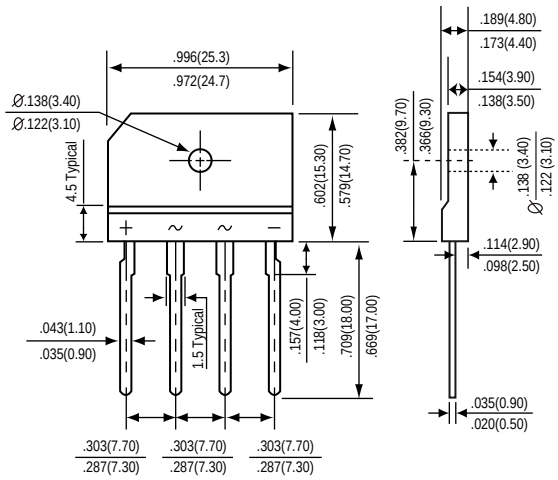
KBJ6D THRU KBJ6M

GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts *Forward Current - 6.0 Amperes*

KBJ



*Dimensions in inches and (millimeters)

FEATURES

* Compliance to RoHS product
* Single-in-line package
* High current capality with small package
* High Surge Current Capability
* Ideal for Printed Circuit Board Applications
* Plastic Material-UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

Case : KBJ molded plastic

Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026

Polarity : As marked on Body

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	*SYMBOLS*	***KBJ6D***	***KBJ6G***	***KBJ6J***	***KBJ6K***	***KBJ6M***	*UNITS*
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	Volts
Maximum average rectified forward current (NOTE 1) T_C=100°C	$I_{(AV)}$	6.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	170					Amps
Maximum instantaneous forward voltage @ I_F=3.0 A	V_F	1.0					Volts
Maximum DC reverse current @T_C=25°C at rated DC blocking voltage @T_C=125°C	I_R	5 500					uA
Typical junction capacitance per element (NOTE 2)	C_J	55					pF
Typical thermal resistance (NOTE 1, 3)	$R_{\theta JC}$	3.4					°C / W
Operating juntion and storage temperature	T_j,T_{STG}	-55 to +150					°C

NOTES : (1) Unit case mounted on Al plate heat-sink
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
(3) Thermal resistance per leg on P.C.B. without heat-sink.

RATINGS AND CHARACTERISTIC CURVES KBJ6D THRU KBJ6M

FIG.1 - FORWARD CURRENT DERATING CURVE

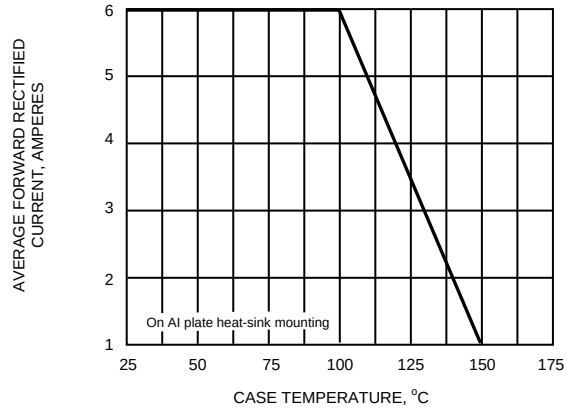


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

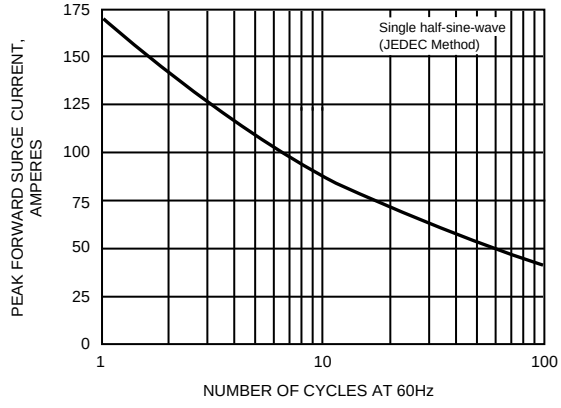


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

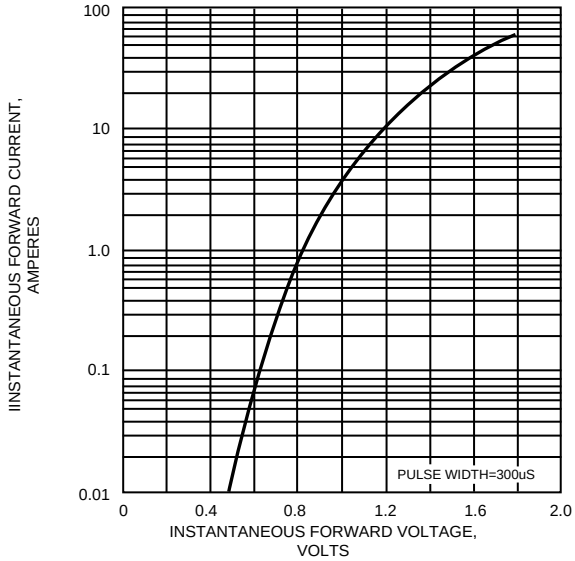


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

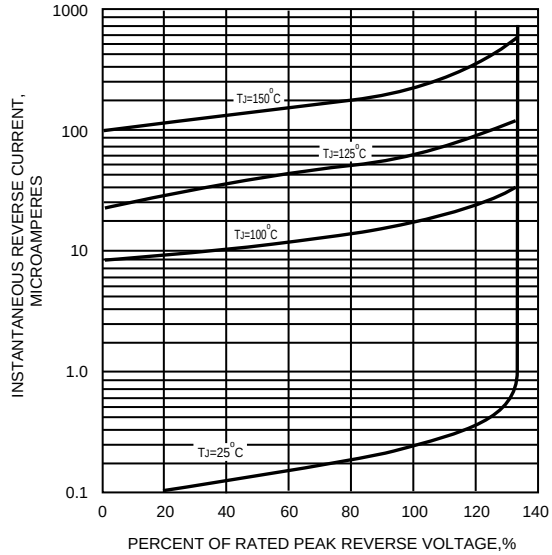


FIG.5 - TYPICAL JUNCTION CAPACITANCE