

VOLTAGE RANGE: 50 - 1000V
CURRENT: 2.0 A

Features

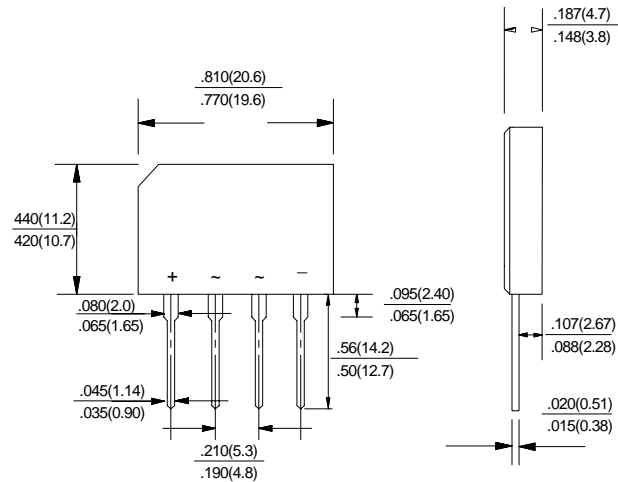
- Diffused Junction
- High Surge Current Capability
- High Current Capability
- High Reliability

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 2.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBJ2



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBJ2A	KBJ2B	KBJ2D	KBJ2G	KBJ2J	KBJ2K	KBJ2M	Unit
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 Output current @T _A =50 °C	I _{F(AV)}	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	50.0							A
Maximum instantaneous forward voltage at 1.0 A	V _F	1.0							V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10.0 1.0							μA mA
Typical junction capacitance per element	C _J	45							pF
Typical thermal resistance	R _{θJC}	2.2							°C/W
Operating junction temperature range	T _J	- 55 ----- + 125							°C
Storage temperature range	T _{STG}	- 55 ----- + 150							°C

NOTES:1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

2.Device mounted on 300mm X 300mm X 1.6mm cu Plate heatsink.



FIG.1 – PEAK FORWARD SURGE CURRENT

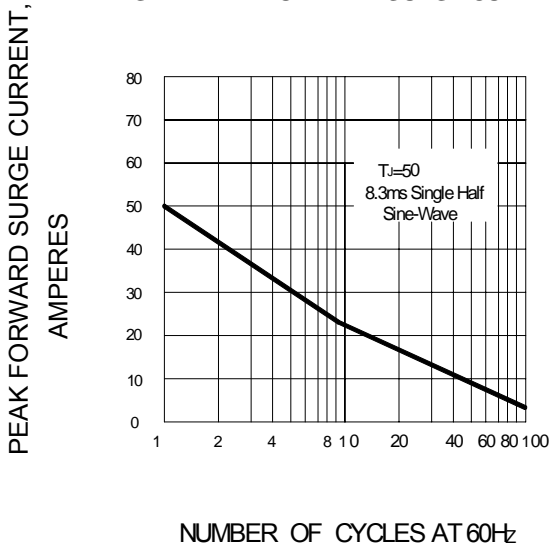


FIG.2 – FORWARD DERATING CURVE

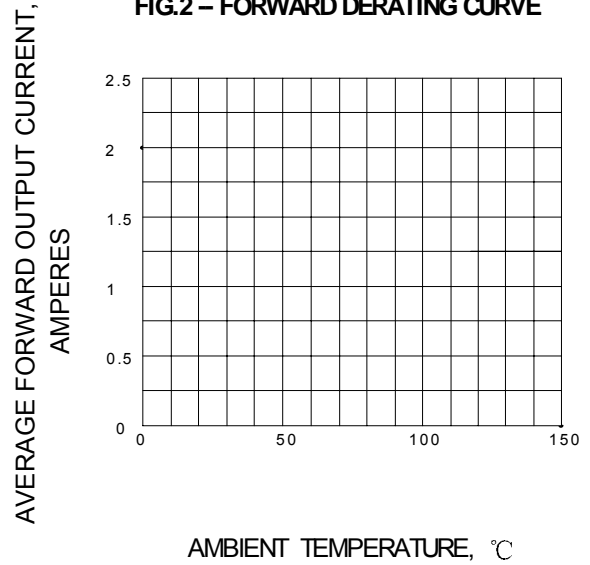


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

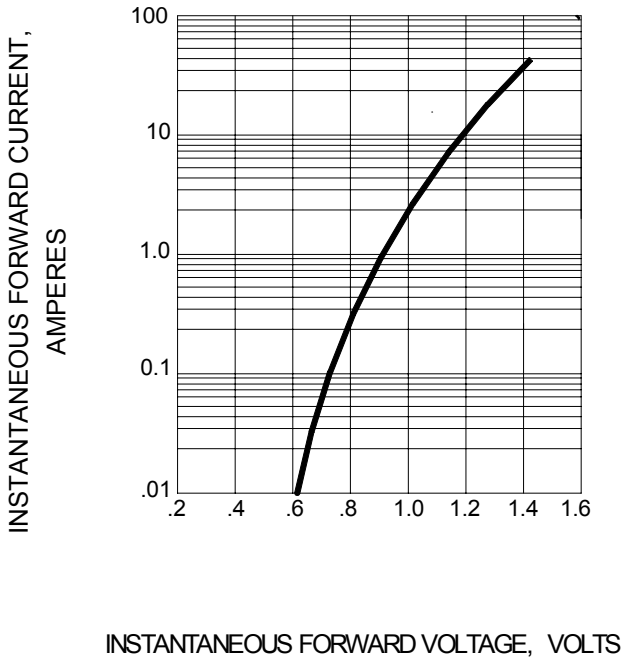


FIG.4 – TYPICAL JUNCTION CAPACITANCE

