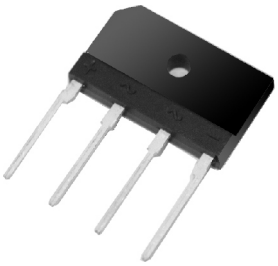
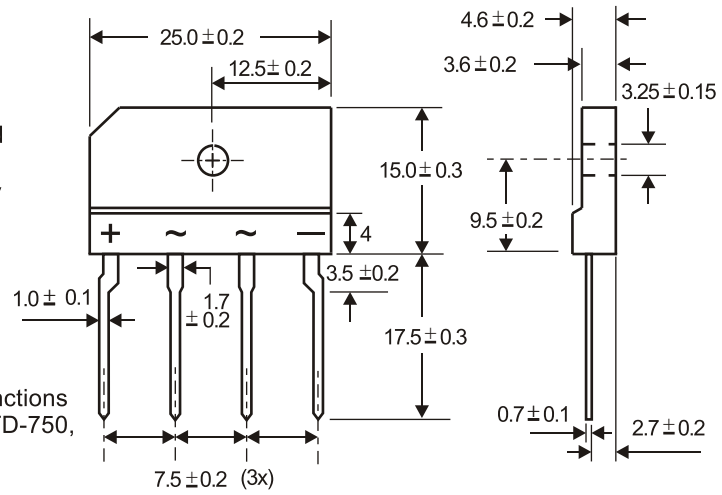
KBJ4005 thru KBJ410

4.0 A Single-Phase Silicon Bridge Rectifier

Rectifier Reverse Voltage 50 to 1000V



KBJ4



Dimensions in millimeters(1mm =0.0394")

Features

- This series is UL listed under the Recognized Component Index, file number E142814
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength of 1500VRMS Ideal for printed circuit boards
- High surge current capability

Mechanical Data

Case : Molded plastic body over passivated junctions
Terminals : Plated leads solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbols molded on body
Mounting Position : Any(3)
Mounting Torque : 5 in-lbs max.
Weight : 0.15 ounce, 4.0 grams (approx)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	KBJ 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current Tc =100°C	IF(AV)	4.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	120							A
Rating for fusing (t<8.3ms)	I^2t	60							A^2sec
Maximum thermal resistance (Note 1)	RthJC	5.5							°C / W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	KBJ 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	Unit
Maximum instantaneous forward voltage drop per leg at 2.0A	VF	1.0							V
Maximum DC reverse current at TA =25°C rated DC blocking voltage per leg TA =125°C	IR	10 250							μA

Notes: (1)Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.
(2)Recommended mounting position is to bolt down on heat sink with silicone thermal compound for maximum heat transfer with #6 screw.

Rating and Characteristic Curves (T_A=25°C Unless otherwise noted)
KBJ4005 thru KBJ410

Fig. 1 Derating Curve for Output Rectified Current

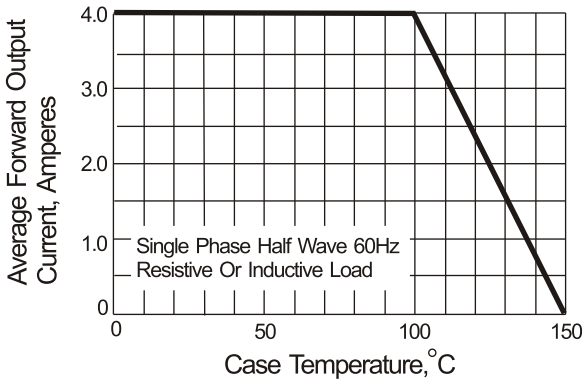


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

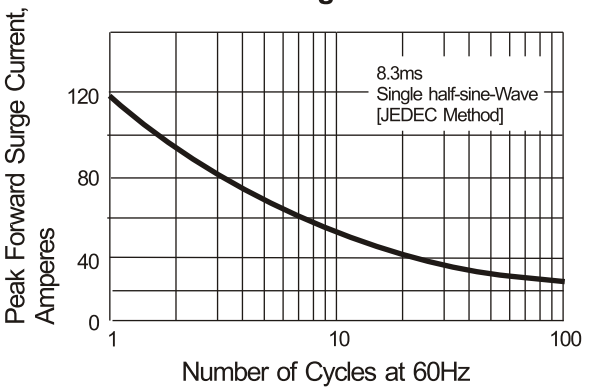


Fig. 3 Typical Instantaneous Forward Characteristics

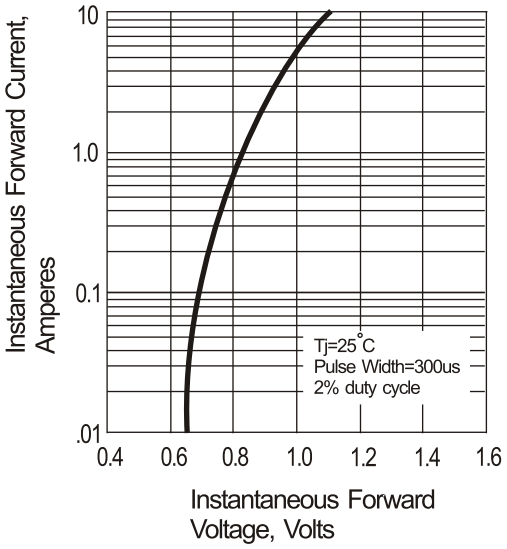


Fig. 4 Typical Reverse Characteristics at Tj=25°C

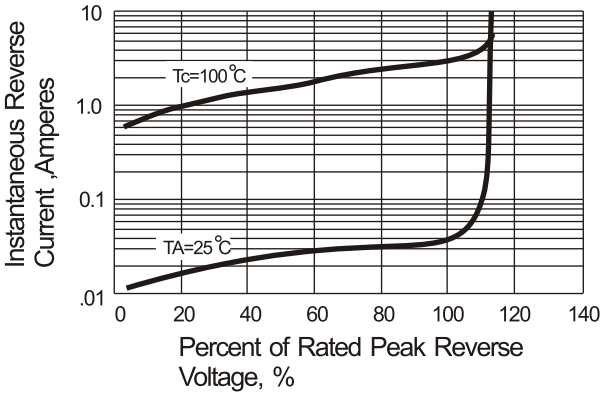
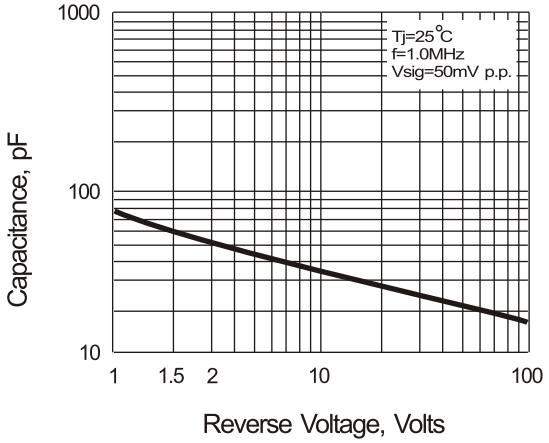


Fig. 5 Typical Junction Capacitance



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers ***category:***

Click to view products by Microdiode Electronics ***manufacturer:***

Other Similar products are found below :

MB252 MB356G MB358G MP358-BP 90MT160KPBF GBJ1504-BP GBU10B-BP GBU15J-BP GBU15K-BP GBU4A-BP GBU4D-BP GSIB680-E3/45 DB101-BP DBA150G DBA250G DBD10G-TM-E DBF10G DBG150G DBG250G DF01 DF10SA-E345 BU1508-E3/45 BU1510-E3/45 KBPC50-10S RS405GL-BP 26MT120 G5SBA60-E3/51 GBJ1502-BP GBU10J-BP GBU4J-BP GBU6M GBU8D-BP GBU8J-BP GSIB1520-E3/45 TB102M MB1510 MB6M-G MB86 TL401G MDA920A2 TU602 TU810 MP501W-BP MP502-BP BR1005-BP BR101-BP BR84DTP204 BU1010A-E3/51 BU1508-E3/51 BU2006-E3/45