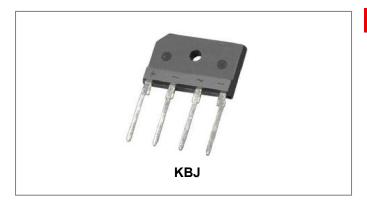


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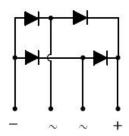
KBJ410G-A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



Features

- Glass passivated chip junction KBJ
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability
- "-A" is an AEC-Q101 qualified device
- This is a Pb Free Device
- . All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: Molded plastic, KBJ
- Epoxy: UL 94V-O rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any
- Weight: 0.16ounce, 4.6gram

Maximum Ratings:@TA=25°C unless otherwise specified

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

Type Number	Symbol	KBJ410G-A	Units
Marking code		KBJ410G	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	1000	
RMS Reverse Voltage	V _{RMS}	700	V
Average forward rectified output current @T _C = 115°C	lo	4.0	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	superimposed on I _{FSM} 120		А

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Electrical Characteristics:@T_A=25°C unless otherwise specified

Type Number	Symbol	KBJ410G-A	Units
Forward Voltage (per element) @I _F =2A @I _F =4A	V _F	1.0 1.1	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	5.0 500	μΑ
Typical Junction Capacitance(per leg) (Note 1)	C₃	40	pF

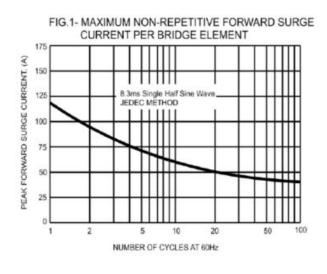
^{*} Pulse width < 300 µs, duty cycle < 2%

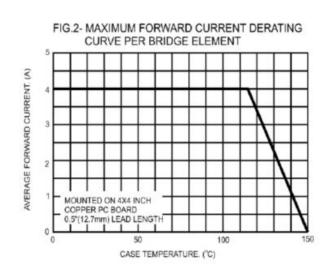
Thermal-Mechanical Specifications:@TA=25°C unless otherwise specified

Type Number	Symbol	KBJ410G-A	Units
Typical Thermal Resistance(Note 2) R _{θJC} 5.5		5.5	°C/W
Operating and Storage Temperature Range	rating and Storage Temperature Range T _J , T _{STG} -55 to +		°C

Note: 1. Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

Ratings and Characteristics Curves





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^{2.} Thermal Resistance from Junction to Case with Device Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

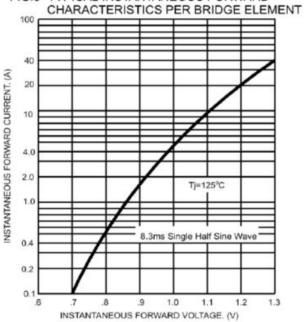


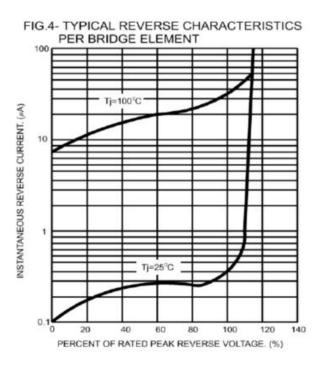
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FIG.3- TYPICAL INSTANTANEOUS FORWARD



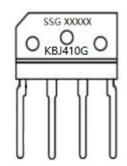


Ordering Information

Device	Package	Plating	Shipping
KBJ410G-A	KBJ (Pb-Free)	Pure Sn	250pcs / box

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



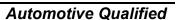
Where XXXXX is YYWWL

SSG = SSG = Year WW = Week = Lot Number KBJ410G = Marking code

Cautions: Molding resin Epoxy resin UL:94V-0

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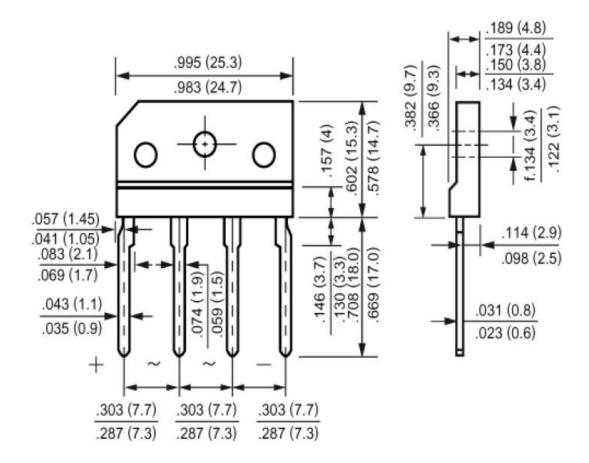
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Mechanical Dimensions KBJ (Inches/Millimeters)



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