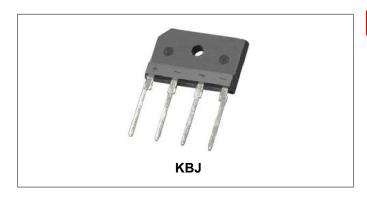






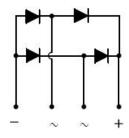
KBJ4005G THRU KBJ410G GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



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
- 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:@T_A=25°C unless otherwise specified

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

Type Number	Symbol	KBJ 4005G	KBJ 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{DC} \end{array}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current @T _C = 115°C I _O 4.0					А				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	I _{FSM} 120					А		

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

Type Number	Symbol	KBJ 4005G	KBJ 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	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			μA				
Typical Junction Capacitance(per leg) (Note 1)	С				40				pF

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

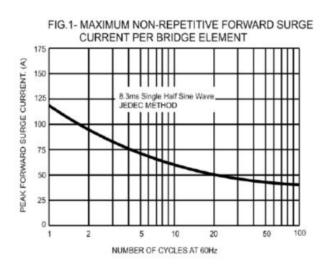
Thermal-Mechanical Specifications:@TA=25°C unless otherwise specified

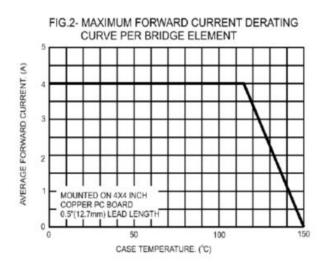
Type Number	Symbol	KBJ 4005G	KBJ 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	Units
Typical Thermal Resistance(Note 2) R _{eJC} 5.5						°C/W			
Operating and Storage Temperature Range T _J , T _{STG} -55 to +150					°C				

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

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

Ratings and Characteristics Curves



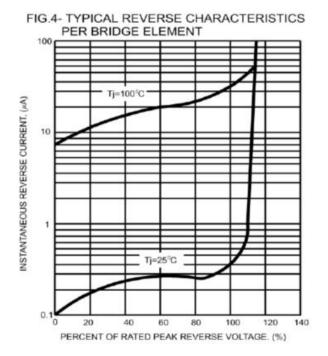


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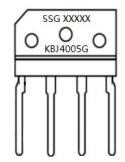


Ordering Information

Device	Package	Plating	Shipping
KBJ4005G THRU KBJ410G	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

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

 KBJ4005G
 = Type Number

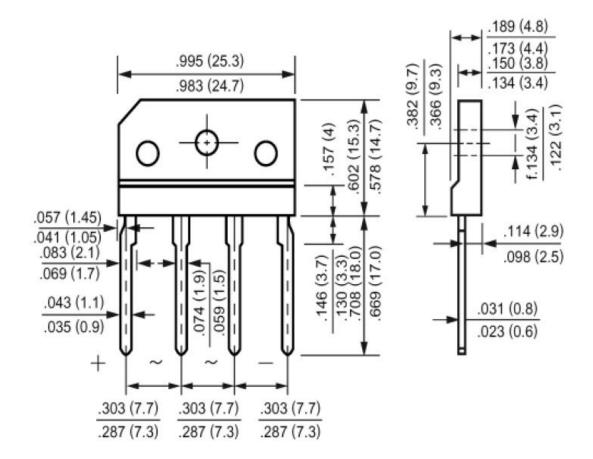
Cautions: Molding resin Epoxy resin UL:94V-0







Mechanical Dimensions KBJ (Inches/Millimeters)



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