

KBJ2005 THRU KBJ210

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 V

FORWARD CURRENT: 2 A

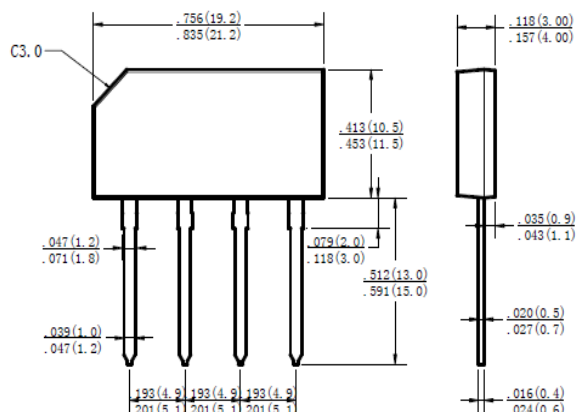
2KBJ

Features

- Glass passivated chip junction
- High surge forward current capability

Mechanical Data

- Case: Molded plastic, 2KBJ
- Mounting Position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	KBJ 2005	KBJ 201	KBJ 202	KBJ 204	KBJ 206	KBJ 208	KBJ 210	Units
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 Rectified Current with Heatsink	$I_{(AV)}$	2							A
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I_{FSM}	80							A
Current Squared Time at $1\text{ ms} \leq t < 8.3\text{ ms}$	I^2t	15							A ² S
Maximum Forward Voltage at 1 A DC	V_F	1.05							V
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	10							μ A
Typical Thermal Resistance	$R_{\theta JA}$	47							°C/W
Typical Thermal Resistance	$R_{\theta JC}$	10							°C/W
Operating and Storage Temperature Range	T_J, T_{Stg}	- 55 to + 150							°C



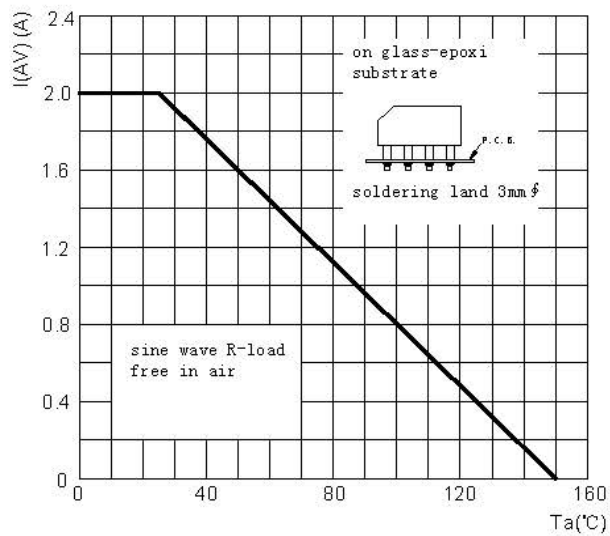


Figure 1. $I_{(AV)} - T_a$ Curve

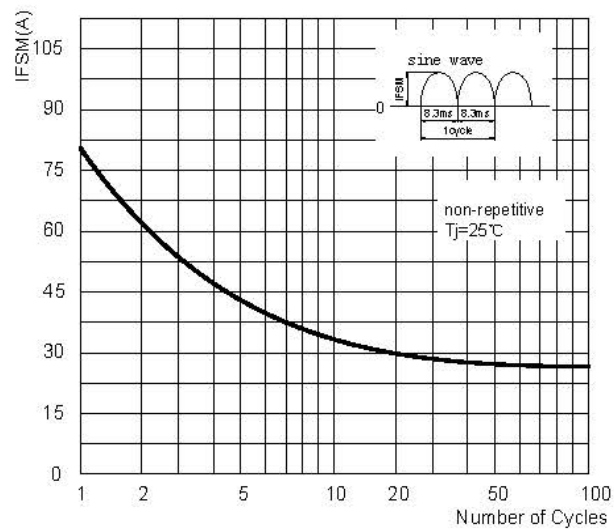


Figure 2. Surge Forward Current Capacity

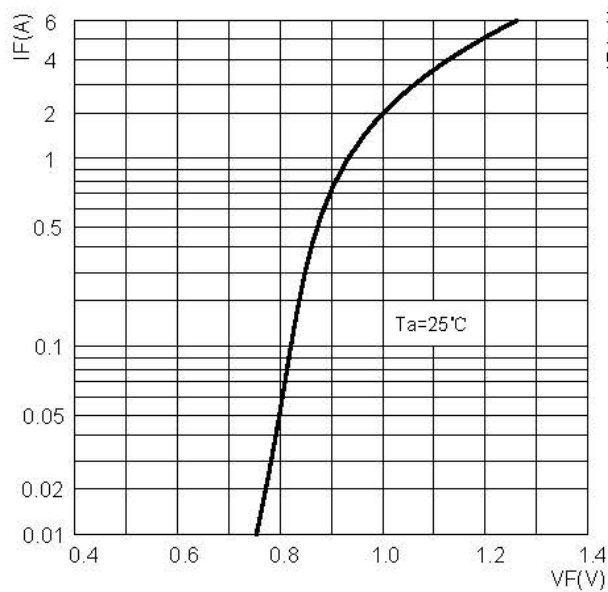


Figure 3. Forward Voltage

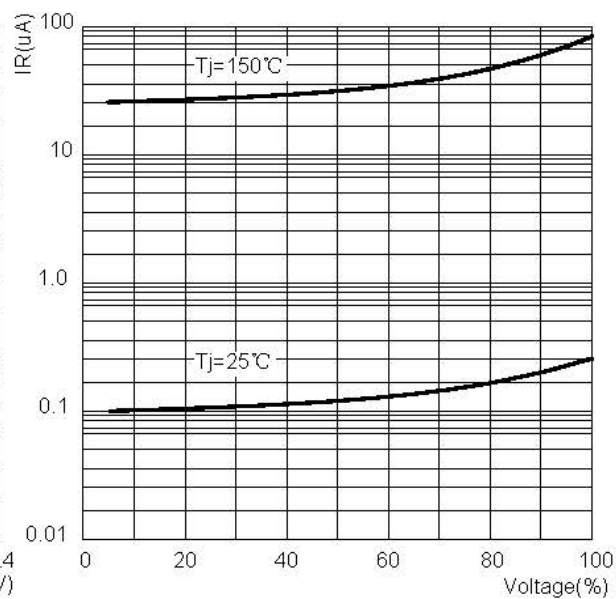


Figure 4. Typical Reverse Characteristics