

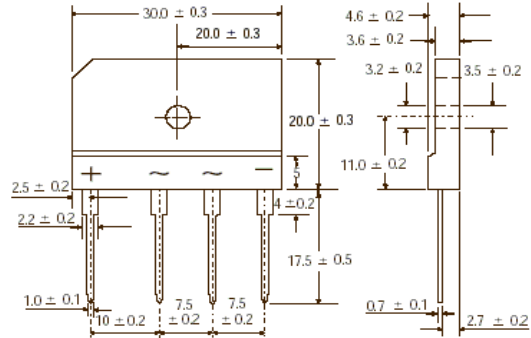


10 Amps Single-Phase Silicon Bridge Rectifiers

Description

Mechanical Dimensions

KBJ1000~1010



KBJ-6

Dimensions in mm

Feature

- This series is UL listed under the Recognized Component index, file number E142814
- Plastic Package has Underwrites Laboratory Flammability Classification 84V-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
- Polarity: Polarity symbols molded on body
- Terminals: Lead Solderable per MIL-STD-750 Method 2026
- Mounting: any
- Mounting Torque: 5 in-lbs max
- Weight: 7.0grams(approx.)

Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic	Symbol	KBJ							Unit
		1000	1001	1002	1004	1006	1008	1010	
Peak Repetitive Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V
working Peak Reverse Voltage	V _{rwm}	35	70	140	280	420	560	700	V
DC Blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V
Forward Continuous Current	I _{F(AV)}	10							A
Peak Forward Surge Current 10ms Sine pulse, rated V _{rrm} applied	I _{FSM}	170							A
Max Forward Voltage I _F =10A @25C	V _f	1.05							V
Reverse Leakage Current WITH V _r @ 25C/125C	I _r	10/500							uA
Operating & Storage Temp. Range	T _j /T _s	-55 ~+150							C
Thermal Resistance Junction to Case	R _{thja}	2.6							C/W
Thermal Resistance Case to Heatsink	R _{thjc}	5							C/W
Rating for fusing(t<8.3ms)	I ² t	120							C/W



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Rating Characteristic Curves KBJ1000~1010(Ta=25C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

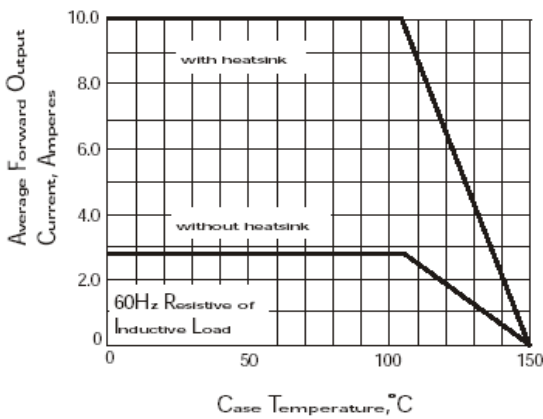


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

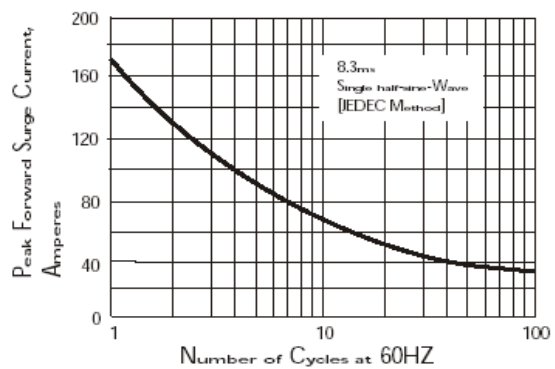


Fig. 3 Typical Instantaneous Forward Characteristics

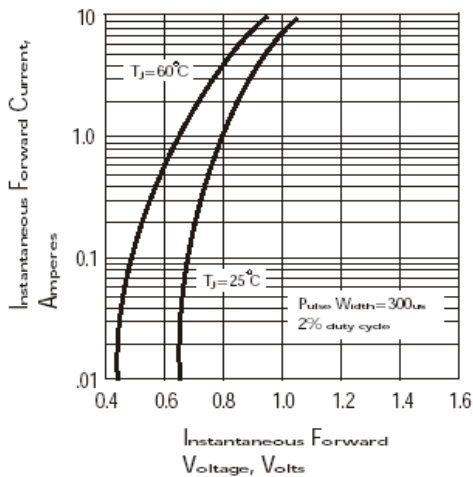


Fig. 4 Typical Reverse Characteristics at Tj=25°C

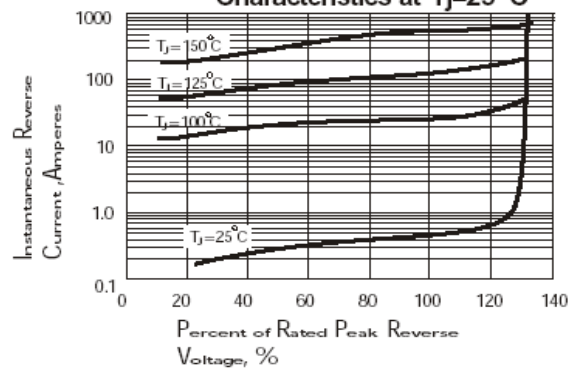


Fig. 5 Typical Junction Capacitance

