

KBJ6005 THRU KBJ610

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

FEATURES

- · Glass passivated chip junction
- · Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
 Flammability Classification 94V-0
- · Reliable low cost construction utilizing molded plastic technique

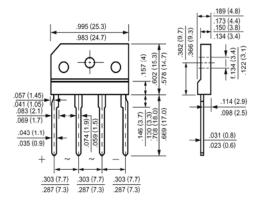
MECHANICAL DATA

Case: Molded plastic, KBJ

Epoxy: UL 94V-0 rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward	T	6.0							Amp
Rectified Current at T _C =110℃	I _(AV)								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 120							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V _F	1.0							Volts
at 3.0A DC and 25 ℃	V _F								
Maximum Reverse Current at T _A =25℃	ī	5.0 500							uAmp
at Rated DC Blocking Voltage T _A =125℃	I_R								
Typical Junction Capacitance (Note 1)	C_{J}	80							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.5							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							ဇ

NOTES:

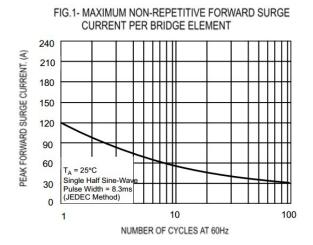
- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2-Thermal Resistance from Junction to Case with Device Mounted on 75mm x 75mm x 1.6mmCu Plate Heatsink.

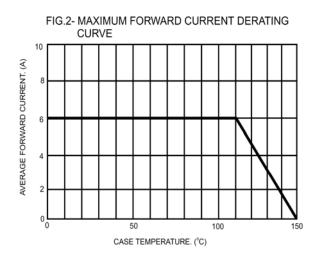
version:01 1 of 2 www.sddydz.com

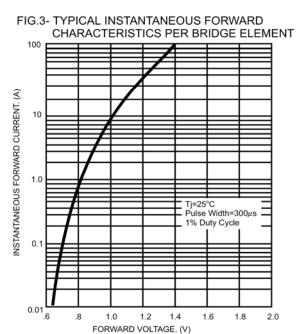
KBJ6005 THRU KBJ610

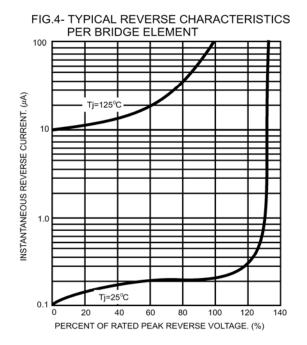
GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

RATINGS AND CHARACTERISTIC CURVES









version:01 2 of 2 www.sddydz.com