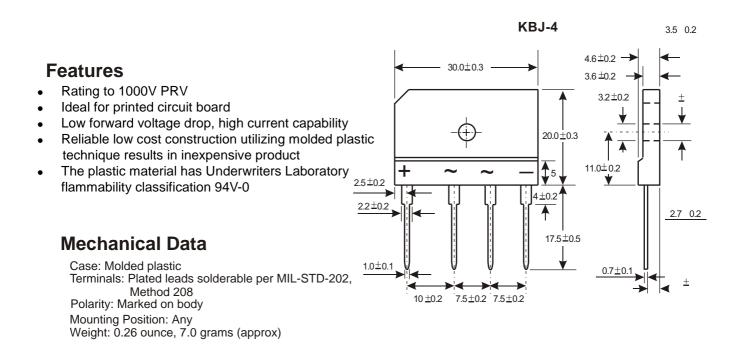


KBJ50005 thru KBJ5010

50.0 A Single-Phase Glass Passivated Bridge Rectifiers Rectifier Reverse Voltage 50 to 1000V



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter		Symbol	KBJ 50005	KBJ 5001	KBJ 5002	KBJ 5004	KBJ 5006	KBJ 5008	KBJ 5010	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 (with heat sink ²)		I _(AV)	50							А
Rectified Current @T _C =100°C (without heat sink)										
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		I _{FSM}	400							A
Maximum Forward Voltage @ 25A DC		VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	TJ=25°C	I _R	10.0							μA
	T _J =125°C		500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	660							A ² s
Typical Thermal Resistance ¹		Rejc	1.5							°C/W
Operating and Storage temperature range		TJ,TSTG	-55~150							°C

Notes :

1. Thermal resistance from junction to case with units mounted on heat sink.

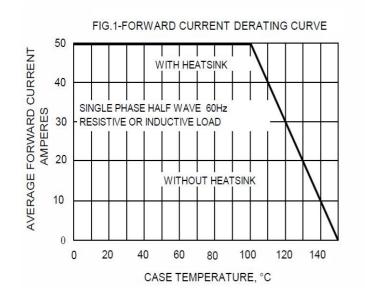
Device mounted on 300mm*300mm*1.6mm Cu plate heat sink. 2.



KBJ50005 thru KBJ5010

50.0 A Single-Phase Glass Passivated Bridge Rectifiers Rectifier Reverse Voltage 50 to 1000V

RATINGS AND CHARACTERISTIC CURVES



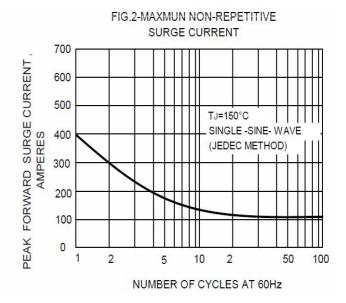


FIG.4-TYPICAL REVERSE CHARACTERISTICS

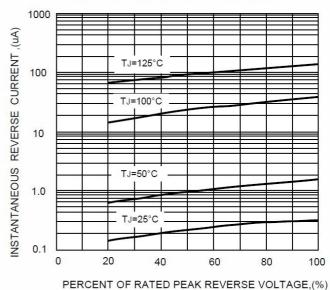


FIG.3-TYPICAL FORWARD CHARACTERISTICS

