

KBJ10005 THRU KBJ1010

Bridge Rectifiers

Features

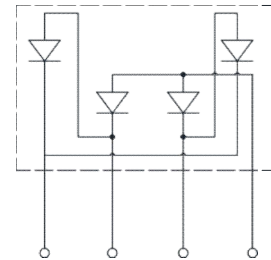
- High efficiency
- Ideal for automated placement
- High surge current capability

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

- Package:KBJ
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body.



■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	KBJ10						
			005	01	02	04	06	08	10
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Average Forward Current @Half-sine wave, Resistance load ,with heatsink T _c =108°C	I _o	A	10						
Average Forward Current @Half-sine wave, Resistance load ,without heatsink T _c =25°C			3.6						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	I _{FSM}	A	175						
Current squared time @1ms≤t≤8.3ms Ta=25°C, Rating of per diode	I ² t	A ² s	127						
Thermal Resistance(Typical) @Between junction and ambient,,without heatsink	R _{θJ-A}	°C/W	25						
Storage Temperature	T _{stg}	°C	-55 ~ +150						
Junction Temperature	T _j	°C	-55 ~ +150						

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	KBJ10						
				005	01	02	04	06	08	10
Peak Forward Voltage	V _{FM}	V	I _F = 5.0A	1.1						
Peak Reverse Current	I _{RRM}	μA	VR =V _{DC} @Ta=25°C	10						
			VR =V _{DC} @Ta=100°C	300						



KBJ10005 THRU KBJ1010

■ Characteristics (Typical)

FIG.1: I_o - T_a Curve

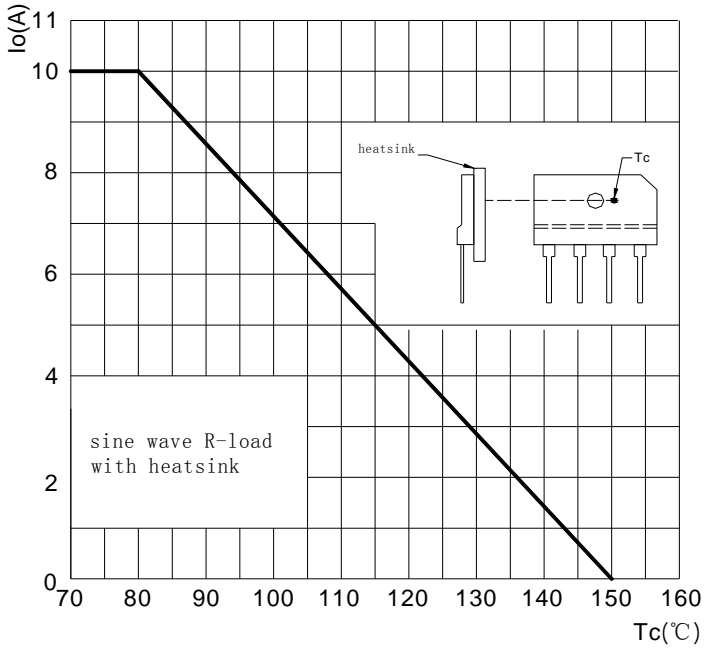


FIG.2: Forward Surge Current Capability

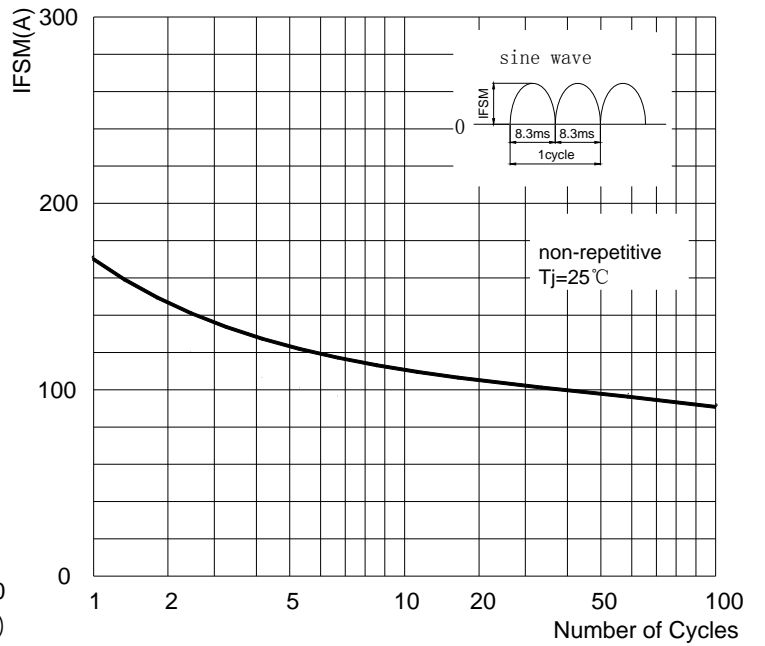


FIG.3: Forward Voltage

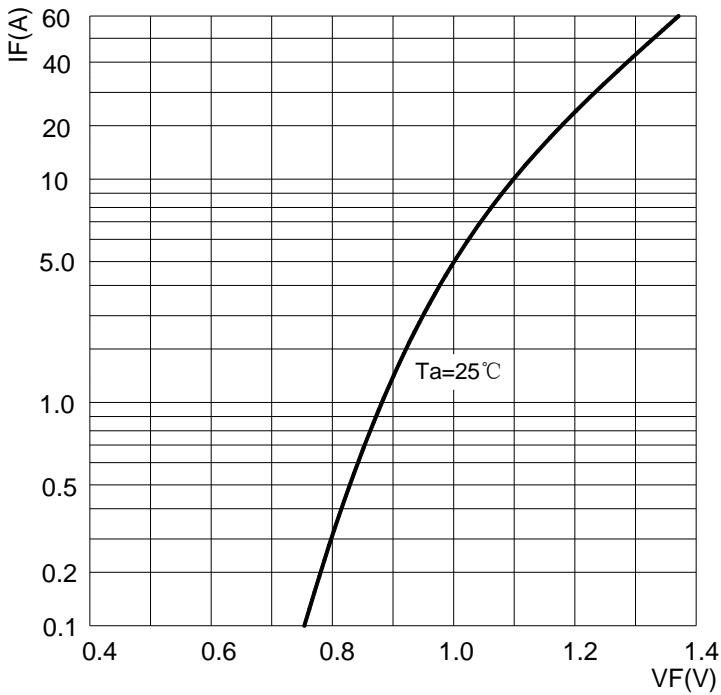
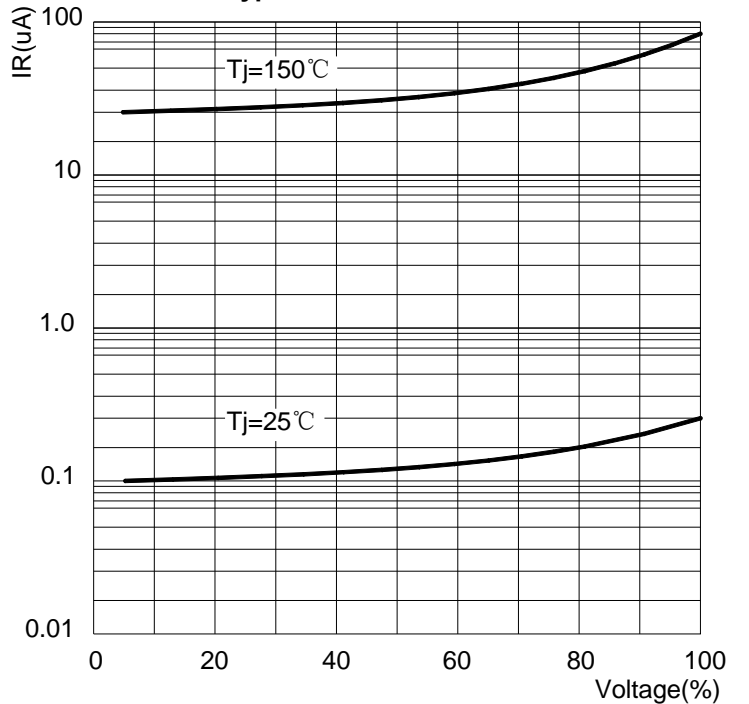


FIG.4: Typical Reverse Characteristics



KBJ10005 THRU KBJ1010

Ordering Information (Example)

PREFERRED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ10005 THRU KBJ1010	KBJ	250	250	2000	Tube

Outline Dimensions

