

KBP300G THRU KBP310G

Bridge Rectifiers

Features

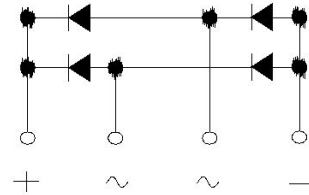
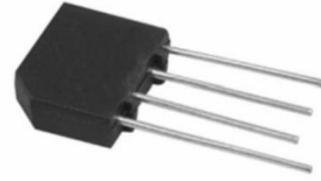
- High efficiency
- Ideal for automated placement
- High surge current capability

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:KBP
- 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	KBP3xxG						
			00	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 ,Tc=30°C	I _o	A	3						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	I _{FSM}	A	60						
Current squared time @1ms≤t8.3≤ms Ta=25°C, Rating of per diode	I ² t	A ² s	14.9						
Thermal Resistance(Typical) @Between junction and ambient	R _{θJ-A}	°C/W	20						
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	KBP3xxG						
				00	01	02	04	06	08	10
Peak Forward Voltage	V _{FM}	V	I _F = 1.5A	1.05						
Peak Reverse Current	I _{RRM}	μA	VR =V _{DC} @Ta=25°C	5						
			VR =V _{DC} @Ta=100°C	300						



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■ Characteristics (Typical)

FIG.1: I_o - T_a Curve

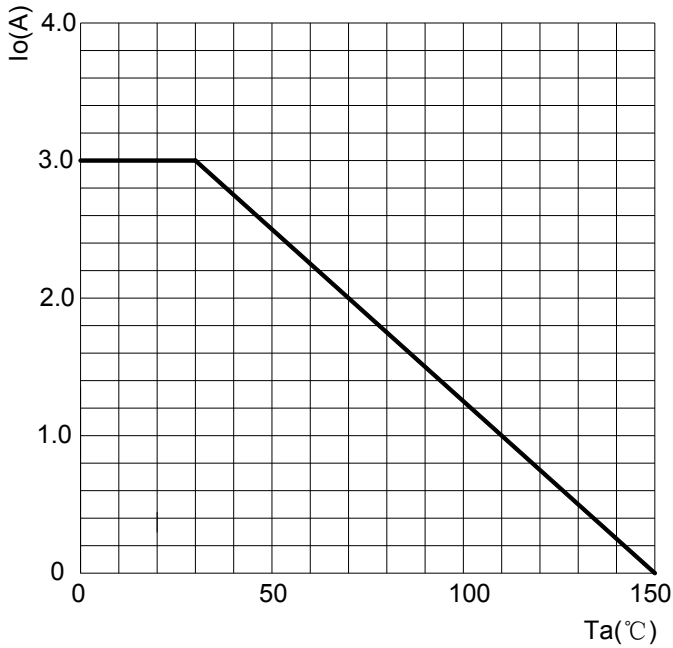


FIG.2: Forward Surge Current Capability

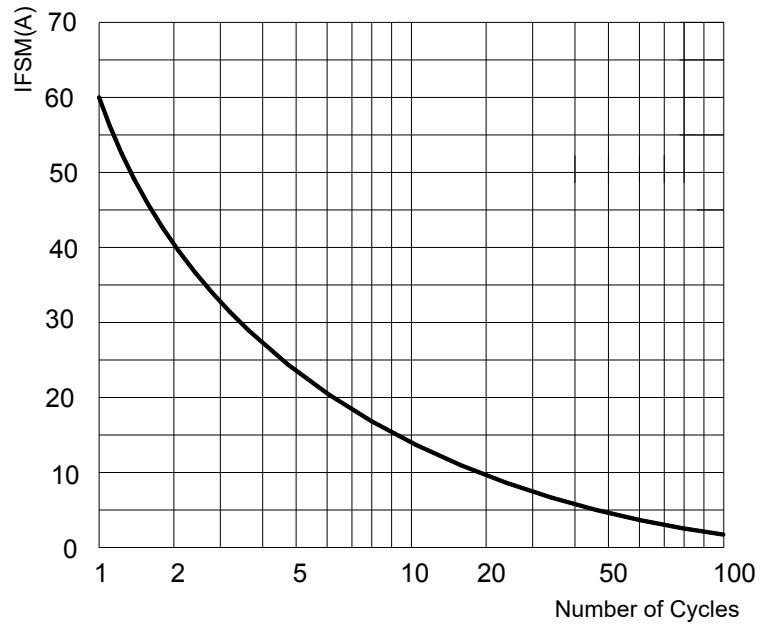


FIG.3: Forward Voltage

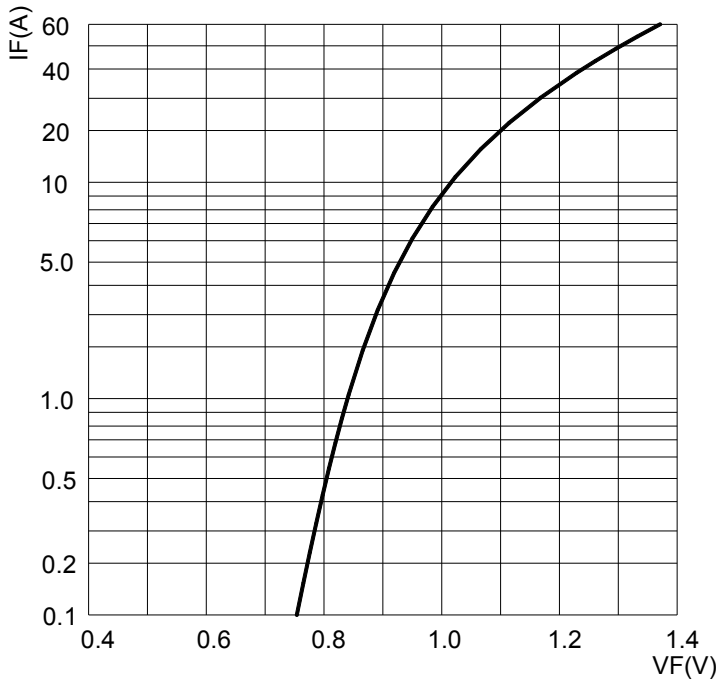
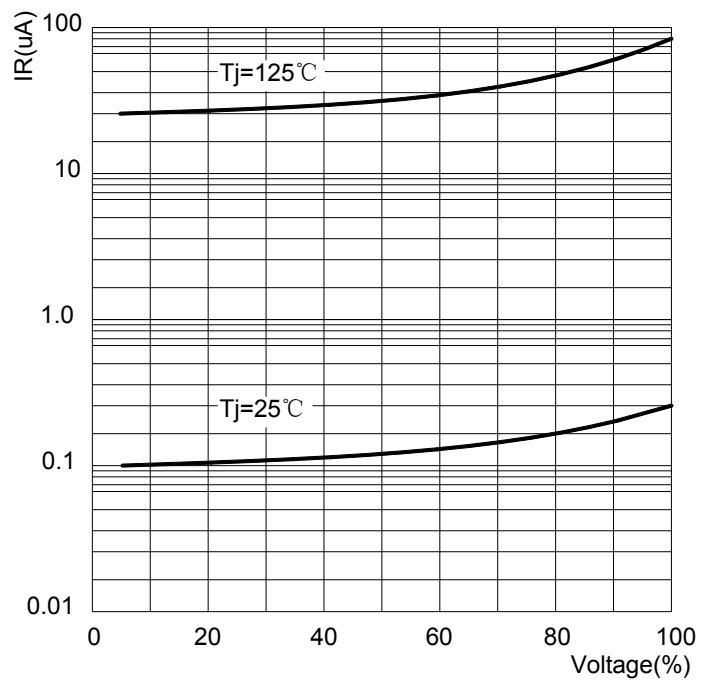


FIG.4: Typical Reverse Characteristics



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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBP300G THRU KBP310G	KBP	500	500	5000	Tube

■ Outline Dimensions

