

Bridge Rectifiers

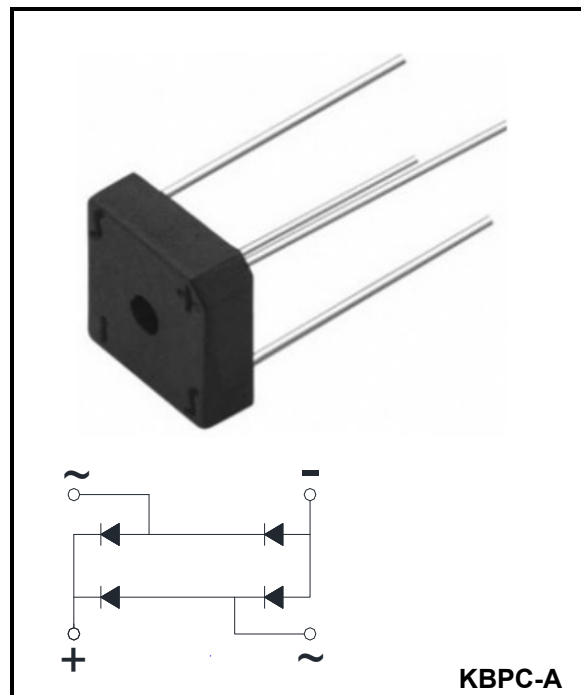
Voltage - 50 to 1000 V
Forward Current

FEATURES

- Suitable for printed circuit board or chassis mounting
- Compact construction
- High surge current capability
- Solder dip 275 °C max. 7s, per JESD 22-B106

MECHANICAL DATA

- Package: **KBPC-A**
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 and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBPC15005	KBPC1501	KBPC1502	KBPC1504	KBPC1506	KBPC1508	KBPC1510	Units
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=40^{\circ}\text{C}$	I_o	15							A
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, $T_a=25^{\circ}\text{C}$	I_{FSM}	220							A
Current Squared Time @1ms≤t≤8.3ms $T_j=25^{\circ}\text{C}$, Rating of per diode	I_{t^2}	200							A ² S
Storage Temperature	T_{stg}	-55 ~+150							°C
Junction Temperature	T_j	-55 ~+150							°C
Maximum instantaneous forward voltage drop per diode $I_{FM}=7.5\text{A}$	V_{FM}	1.1							V
Maximum DC reverse current at rated DC blocking voltage per diode $V_{RM}=V_{RRM}$	I_{RRM}	10							μA
Thermal Resistance	Between junction and ambient	$R_{\theta JA}$							°C/W

Ratings And Characteristic Curves

FIG1: I_o - T_c Curve

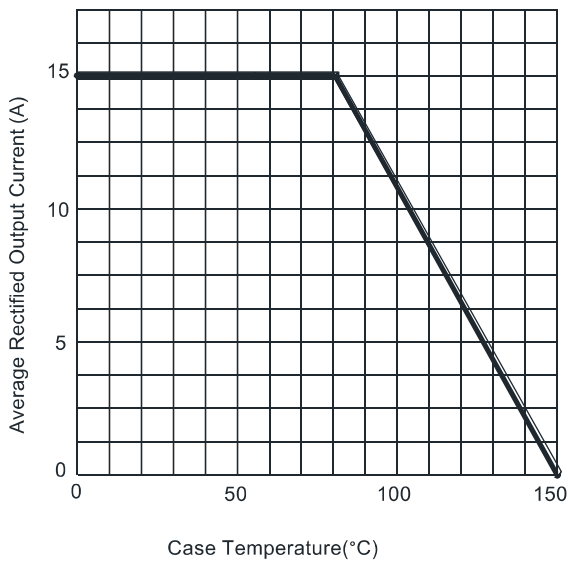


FIG2: Surge Forward Current Capability

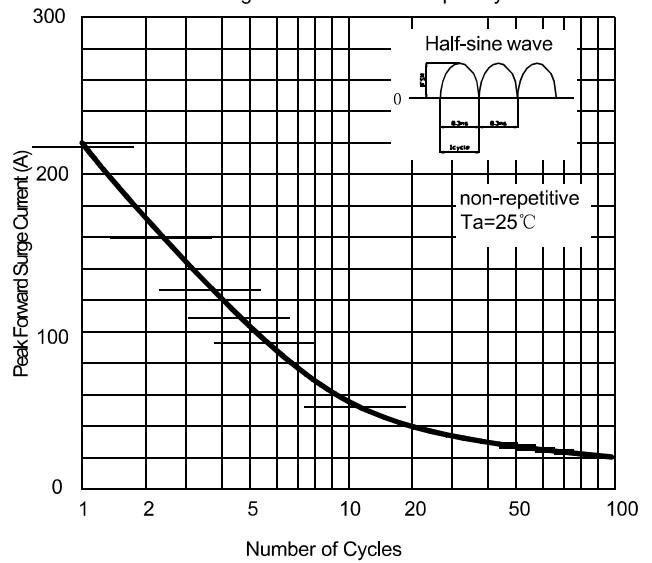


FIG3: Instantaneous Forward Voltage

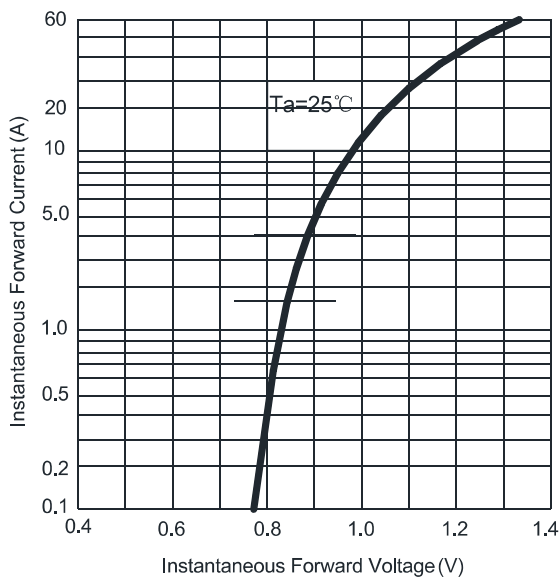
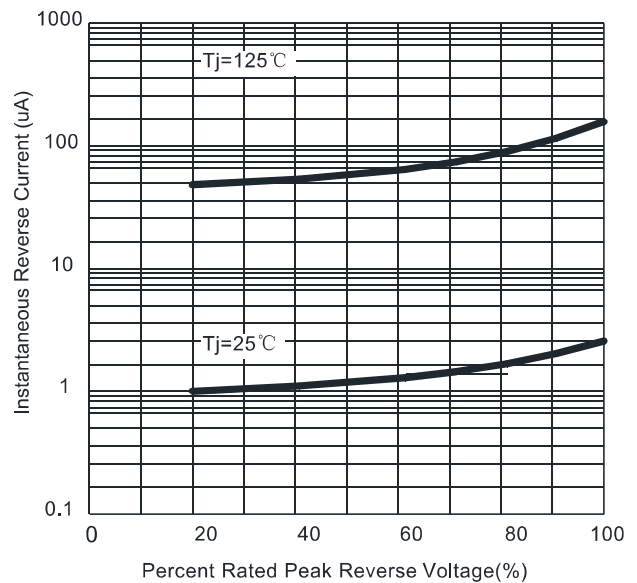
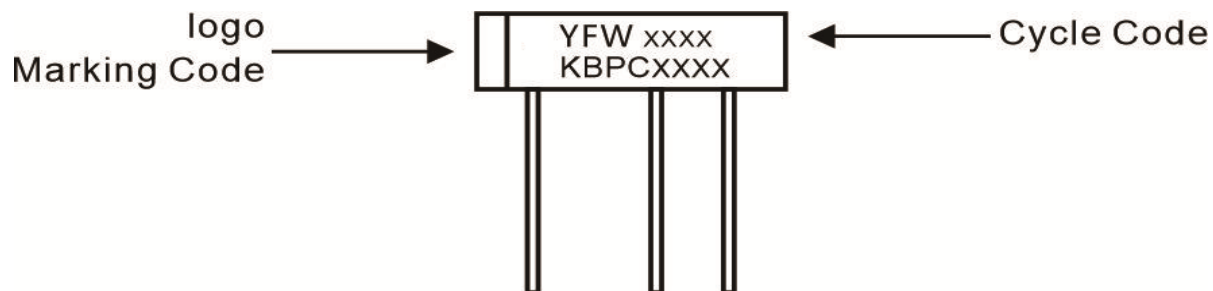


FIG4: Typical Reverse Characteristics



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
KBPC-A	bulk	200PCS/Box 2000PCS/Carton

Package Dimensions

KBPC-A

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	18.50	19.50	0.73	0.77
B	12.30	13.30	0.48	0.52
C	0.99	1.59	0.04	0.06
D	3.50	4.10	0.14	0.16
E	9.00	/	0.35	/
F	6.50	7.50	0.26	0.30

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