

8.0A Single-Phase GLass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 V

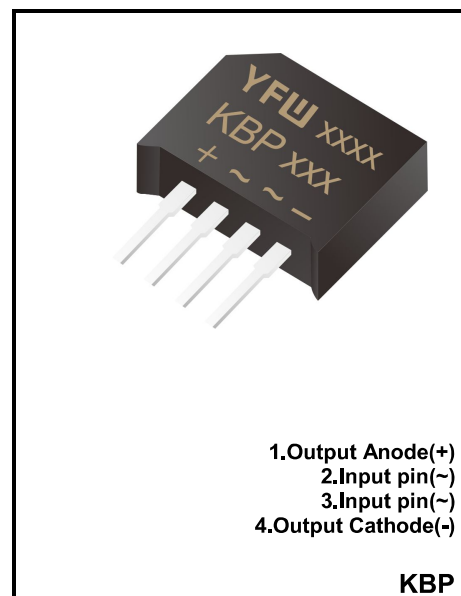
Forward Current - 8.0A

FEATURES

- ◆Glass passivated junction
- ◆The plastic material used carries Underwriters Laboratory
- ◆flammability recognition 94V-0
- ◆Suge overload ratings to 170 amperes peak
- ◆Ideal for printed circuit board application
- ◆High temperature soldering guaranteed 265°C/10

MECHANICAL DATA

- ◆Case: KBP
- ◆Terminals: Platde leads solderable per MIL-STD-750, Method 2026
- ◆Polarity:Polarity symbols molded or Marked on body
- ◆ Mounting Position:Any
- ◆Weight:0.05ounce,1.42 grams(approx)



Maximum Ratings and thermal characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbols	KBP8005 DJ	KBP801 DJ	KBP802 DJ	KBP804 DJ	KBP806 DJ	KBP808 DJ	KBP810 DJ	Units
Maximum Repetitive 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 rectified output current at $T_A=40^{\circ}C$	$I_{F(AV)}$	8.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	170							A
Maximum instantaneous forward voltage drop per leg at 4.0A	V_F	1.05							V
Maximum DC reverse current at ratde $T_A=25^{\circ}C$ DC blocking voltage per element $T_A=125^{\circ}C$	I_R	5 500							μA
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							$^{\circ}C$

Rating and Characteristic Curves(TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

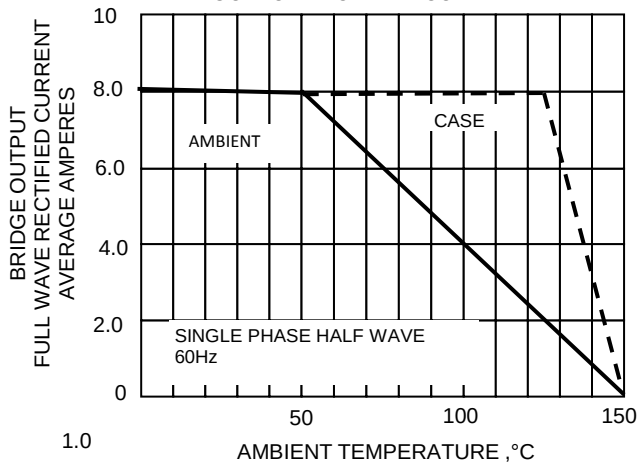


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

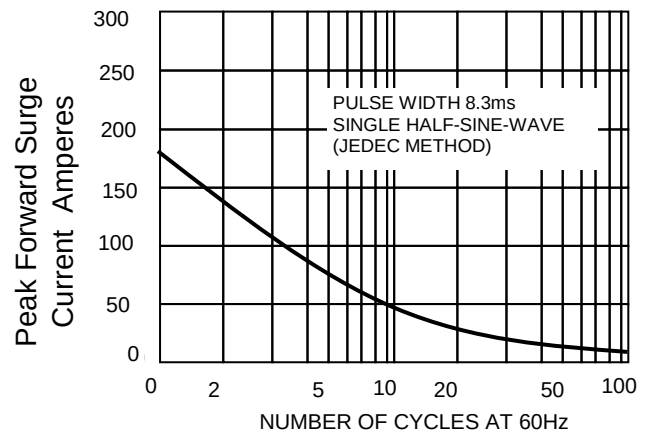


FIG.3-TYPICAL JUNCTION CAPACITANCE

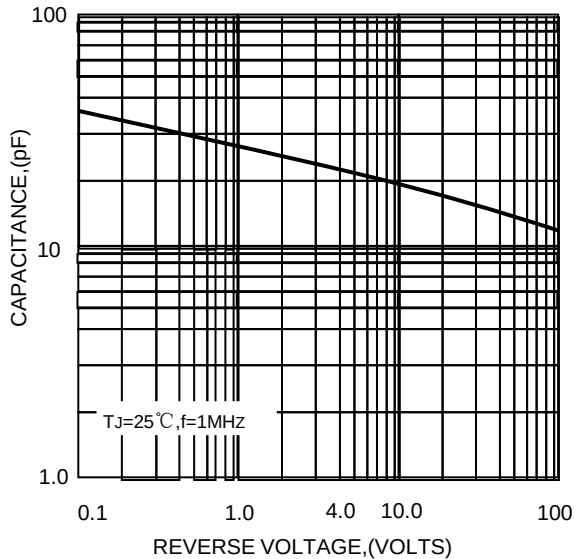


FIG.4-TYPICAL FORWARD CHARACTERISTICS

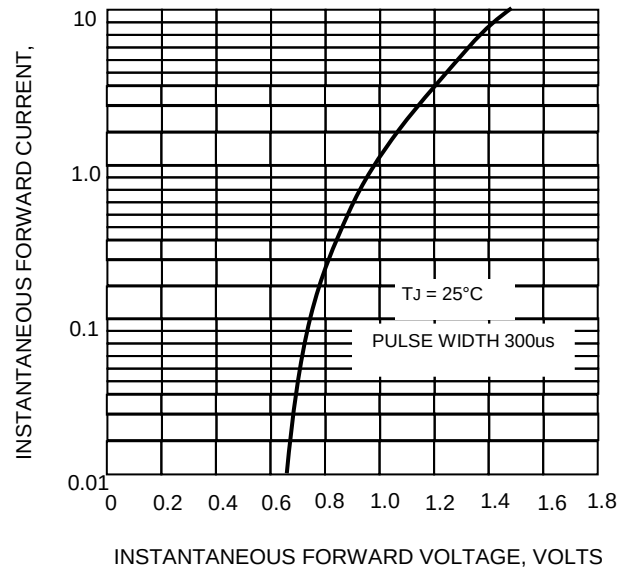
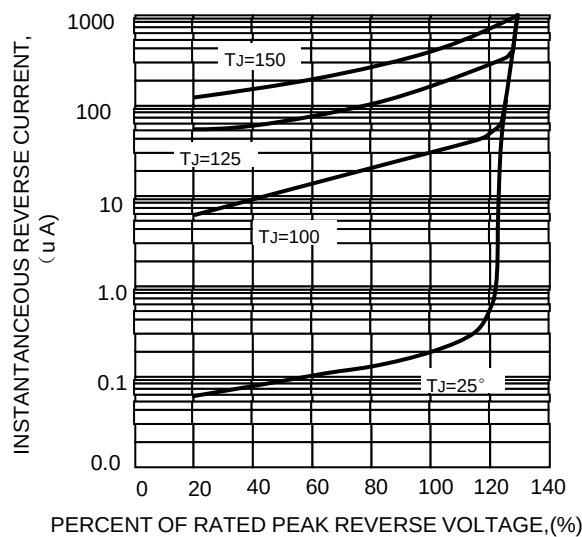


FIG.5-TYPICAL REVERSE CHARACTERISTICS



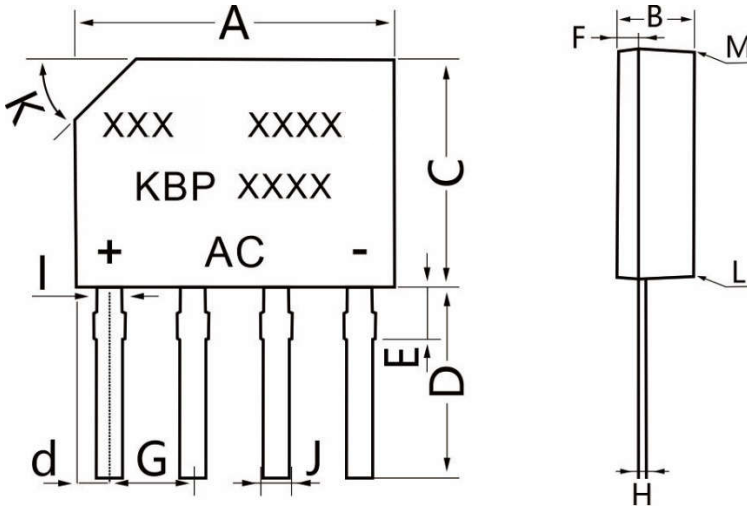
Ordering information

Package	Packing Description	Packing Quantity
KBP	bulk	500PCS/Box 5000PCS/Carton

Package Dimensions

KBP

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	14.3	14.60	0.56	0.57
B	3.0	3.3	0.12	0.13
C	10.45	10.75	0.41	0.42
D	5.0	5.5	0.197	0.217
d	1.40	1.70	0.06	0.07
E	2.0	2.30	0.09	0.09
F	0.90	1.20	0.04	0.05
G	3.50	3.80	0.14	0.15
H	0.35	0.37	0.01	0.01
I	1.43	1.45	0.06	0.06
J	0.8	0.83	0.03	0.03
K	2.7×45° (Typ)		0.11×45° (Typ)	
L	#	3°	#	3°
M	#	2°	#	2°



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