

8.0A SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 V

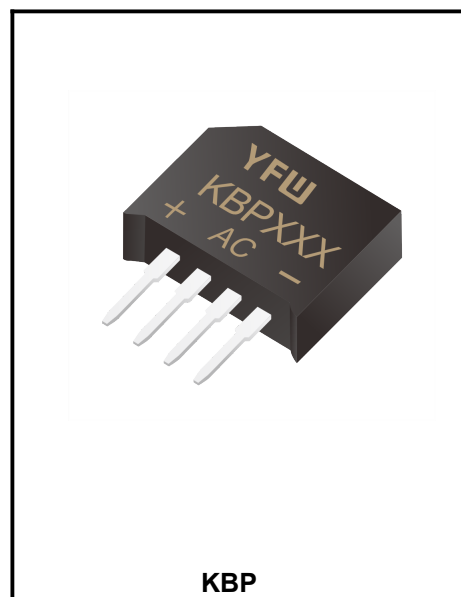
Forward Current - 8.0A

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	KBP801	KBP802	KBP804	KBP806	KBP808	KBP810	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							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

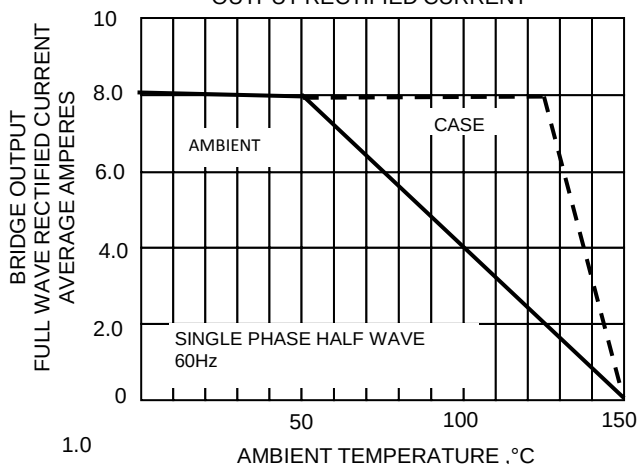


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

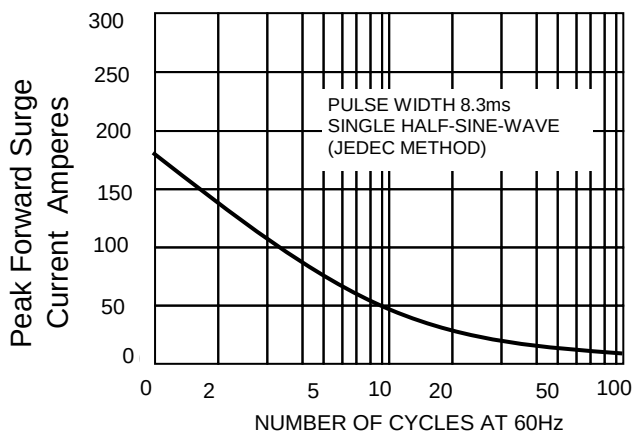


FIG.3-TYPICAL JUNCTION CAPACITANCE

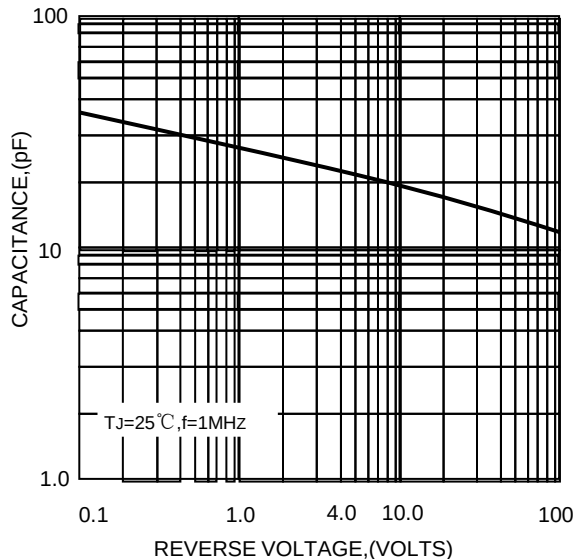


FIG.4-TYPICAL FORWARD CHARACTERISTICS

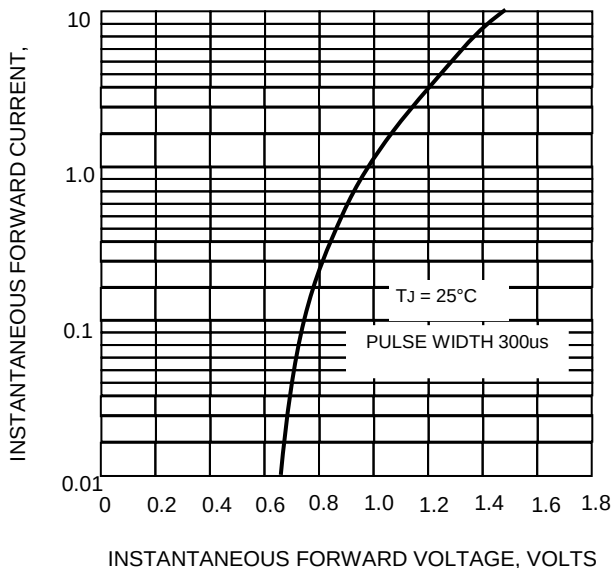
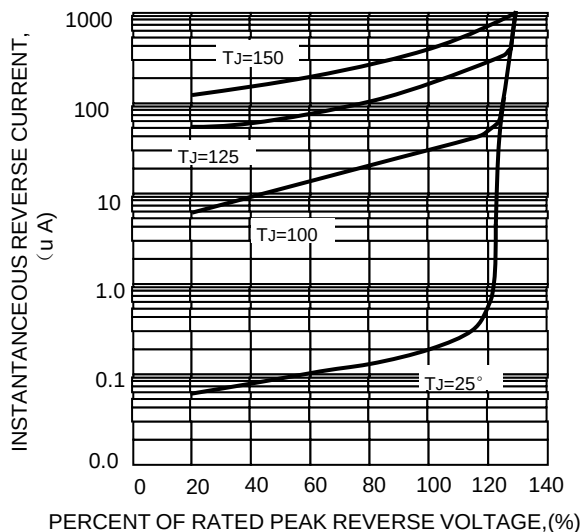
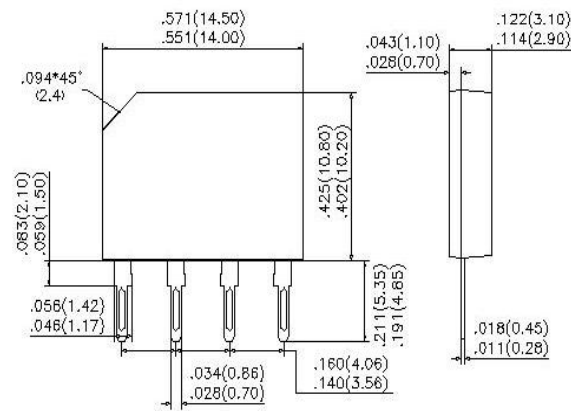


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline

KBP



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
KBP	BOX	500	EIA-481-1