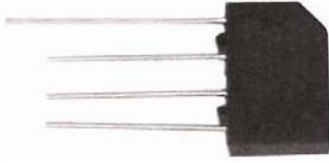
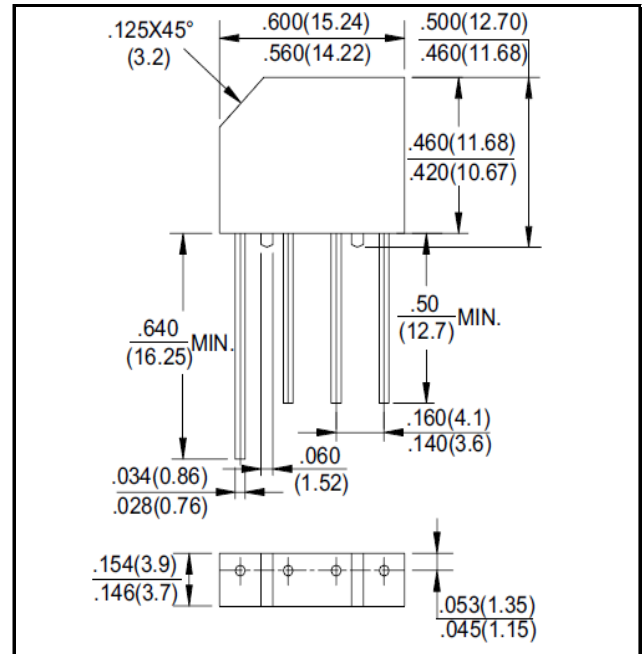


## 1.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V



### KBP



### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 50 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed  $265^\circ\text{C}/10$

### Mechanical Data

Case: Molded plastic

Terminals: Plate leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or Marked on body

Mounting Position: Any

Weight: 0.07 ounce, 1.95 grams (approx)

### Maximum Ratings & Thermal Characteristics

Dimensions in inches and (millimeters)

Rating at  $25^\circ\text{C}$  ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	unit
		TBP005	TBP01	TBP02	TBP04	TBP06	TBP08	TBP10	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at $T_A=40^\circ\text{C}$	IF(AV)	1.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	35							A
Operating junction and storage temperature range	TJ, TSTG	-55to+150							$^\circ\text{C}$

### Electrical Characteristics

Rating at  $25^\circ\text{C}$  ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	unit
		TBP005	TBP01	TBP02	TBP04	TBP06	TBP08	TBP10	
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.1							V
Maximum DC reverse current at $T_A=25^\circ\text{C}$	IR	10							UA
DC blocking voltage per element $T_A=125^\circ\text{C}$		500							

**Rating and Characteristic Curves**( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

FIG.1-DERATING CURVE FOR

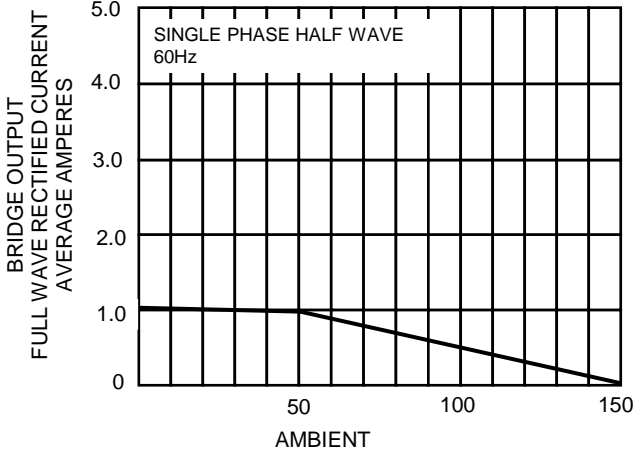


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

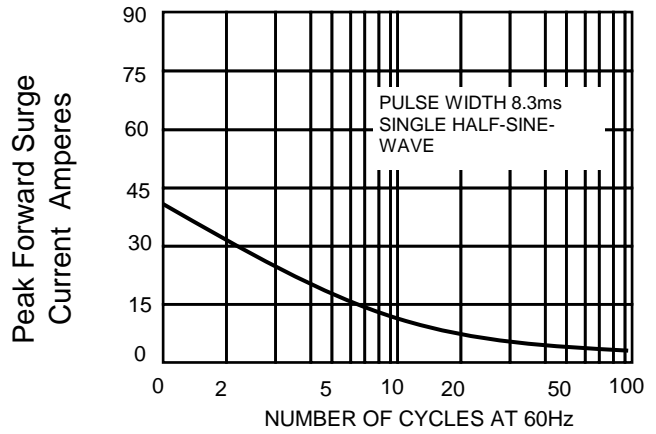


FIG.3-TYPICAL REVERSE CHARACTERISTICS

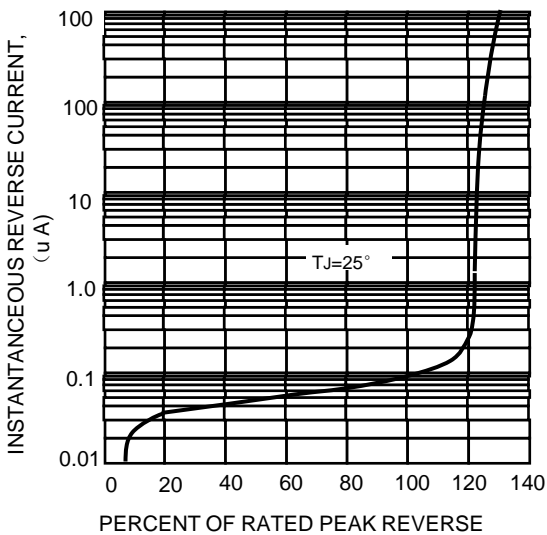


FIG.4-TYPICAL FORWARD CHARACTERISTICS

