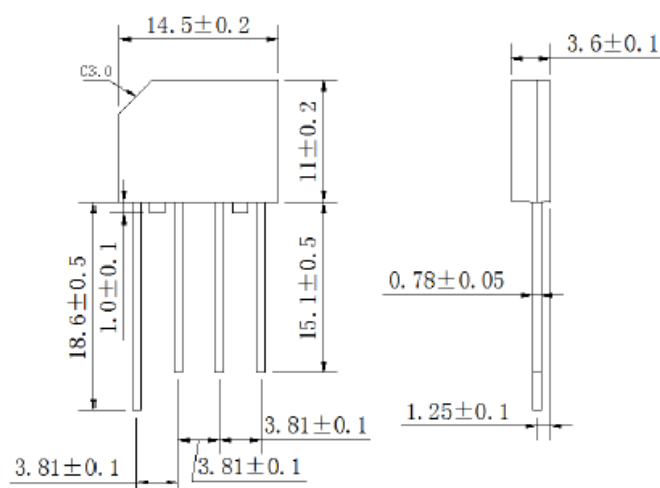


Kingtronics®**KBP2005 THRU
KBP210****2A SINGLE-PHASE BRIDGE RECTIFIER
RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts****FEATURES**

- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 265/10 seconds at 5 lbs (2.3kg) tension

MECHANICAL DATA

Case: Reliable low cost construction utilizing molder plastic technique
 Terminals: Plated leads solderable per MIL-STD-202, Method 208
 Mounting Position: Any

KBP**Dimensions in millimeters (1mm=00394")****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%

CHARACTERISTICS	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNIT
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 $T_A=40^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
Operating junction and storage temperature range	$T_J,$ T_{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60Hz.
 For capacitive load, derate by 20%

PARAMETER	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNIT
Maximum instantaneous forward voltage drop per leg at 2.0A	V_F	1.1							V
Maximum DC reverse current at rated $T_A=25^\circ\text{C}$ DC blocking voltage per element $T_A=125^\circ\text{C}$	I_R	10 500							uA

Note:

1. Thermal resistance from junction to Ambient on PC board mounting.
2. Measured at 2.0 MHz and applied reverse voltage of 4.0 volts.

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RATINGS AND CHARACTERISTIC CURVES (TA=25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

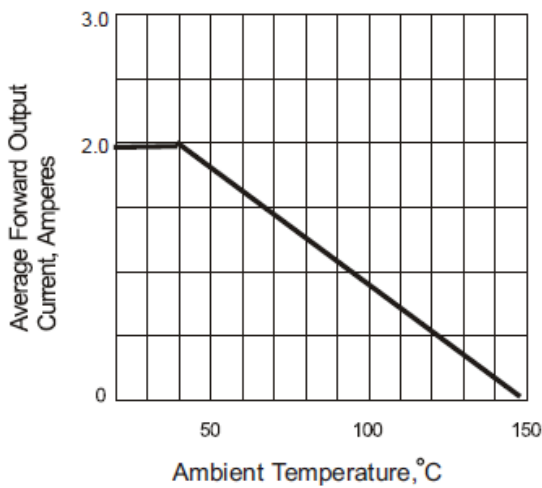


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

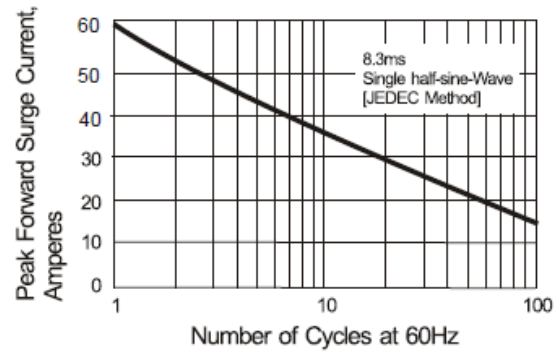


Fig. 3 Typical Instantaneous Forward Characteristics

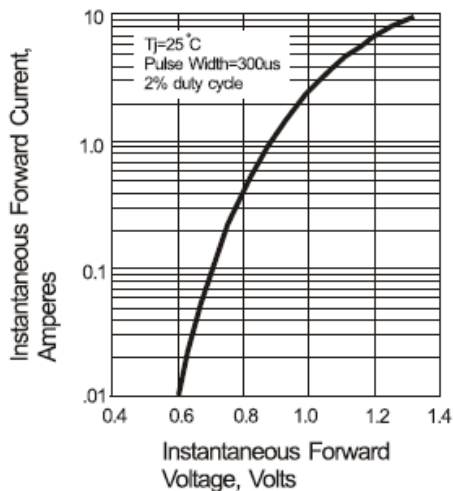


Fig. 4 Typical Reverse Characteristics

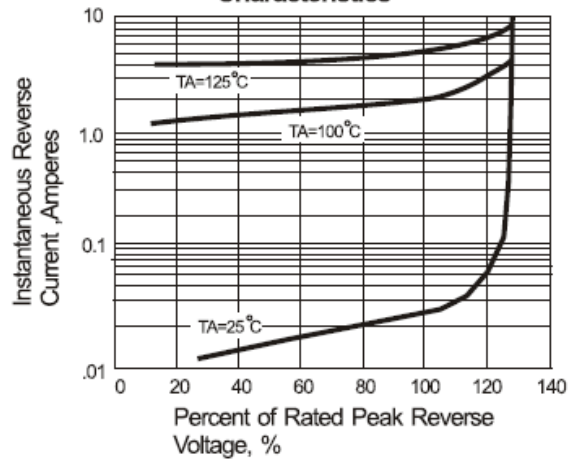
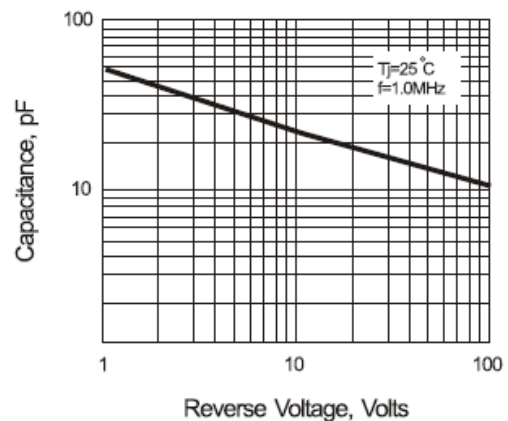


Fig. 5 Typical Junction Capacitance



Note: Specifications are subject to change without notice.