

BRIDGE RECTIFIER

VOLTAGE RANGE: 50 --- 1000 V CURRENT: 3.0 A

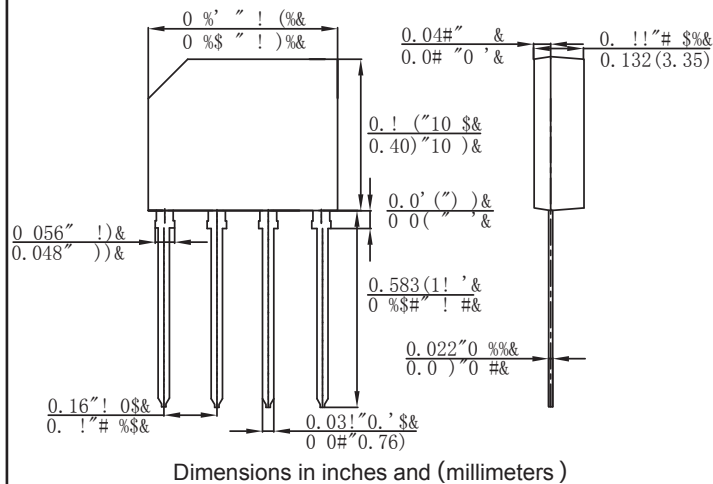
FEATURES

- Low forward voltage drop
- High surge current capability
- Plastic material-UL flammability 94V-0

MECHANICAL DATA

- Case: KBP, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number

KBP



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KBP 3005	KBP 301	KBP 302	KBP 303	KBP 304	KBP 306	KBP 307	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_A=50^\circ\text{C}$	I_o	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80							A
Forward Voltage per element @ $I_F=2.0A$	V_{FM}	1.1							V
Peak Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	5.0 500							μA
Typical Thermal Resistance per leg	$R_{\theta JA}$	30							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES

RATING AND CHARACTERISTIC CURVES ($T_A=25^{\circ}\text{C}$ UNLESS OTHERWISE NOTED)

KBP301G THRU KBP307G

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

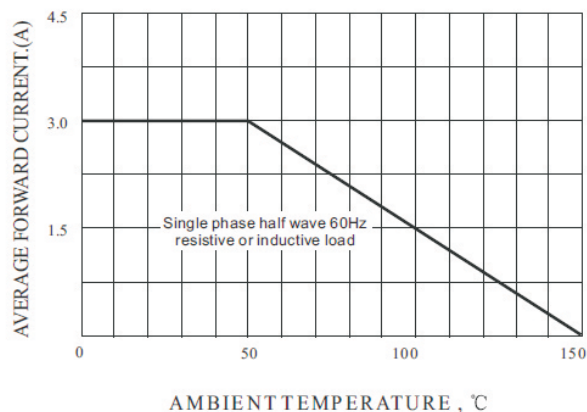


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

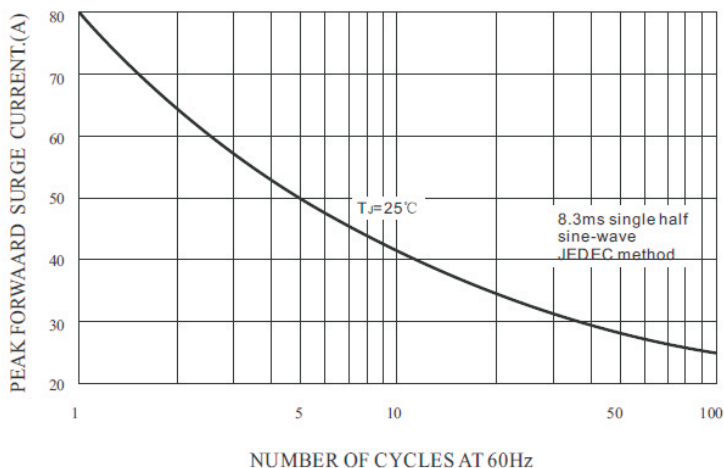


FIG.3-TYPICAL FORWARD CHARACTERISTICS

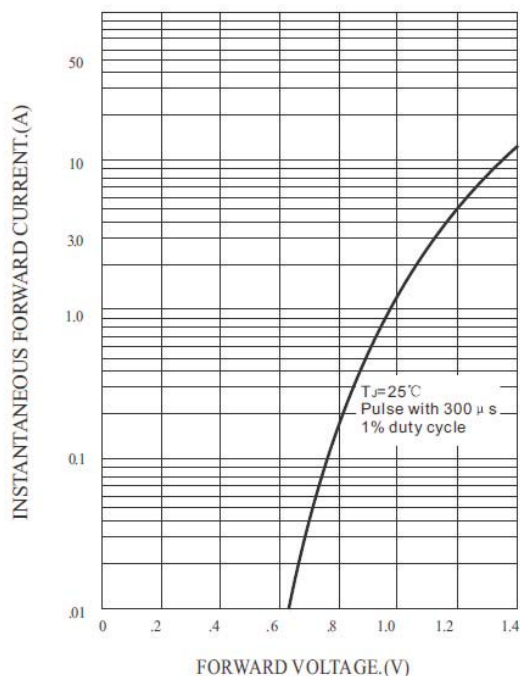


FIG.4-TYPICAL REVERSE CHARACTERISTICS

