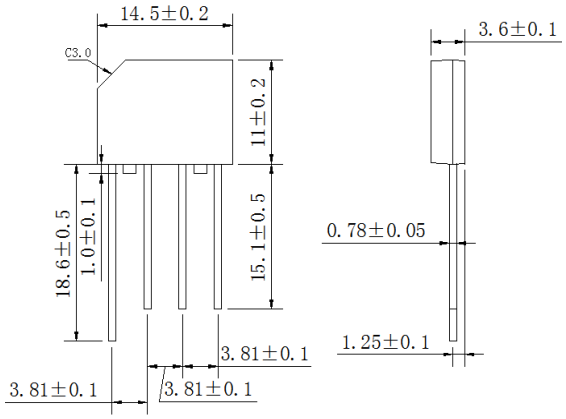
东沃电子
DOWOSEMI

KBP301~KBP307

3A Single-Phase Bridge Rectifier

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℃/1 0 seconds at 5 lbs (2 .3kg) tension



Dimensions in inches and (milimeters)

Mechanical Data

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

Maximum Ratings & Thermal Characteristics

CHARACTERISTICS	SYMBOL	KBP301	KBP302	KBP303	KBP304	KBP305	KBP306	KBP307	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	30	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℃	$I_{F(AV)}$	3							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							℃

Notes: Rating at 25 C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Electrical Characteristics

Parameter	Symbol	KBP301	KBP302	KBP303	KBP304	KBP305	KBP306	KBP307	Unit
Maximum instantaneous forward voltage drop per leg at 3.0A	V_F	1.1							V
Maximum DC reverse current at rated DC blocking voltage per element TA=25℃ TA=125℃	I_R	10 500							uA

Notes: Rating at 25 C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%
Measured at 2.0MHz and applied reverse voltage of 4.0 volts

■ Rating and Characteristic Curves (TA=25℃ Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

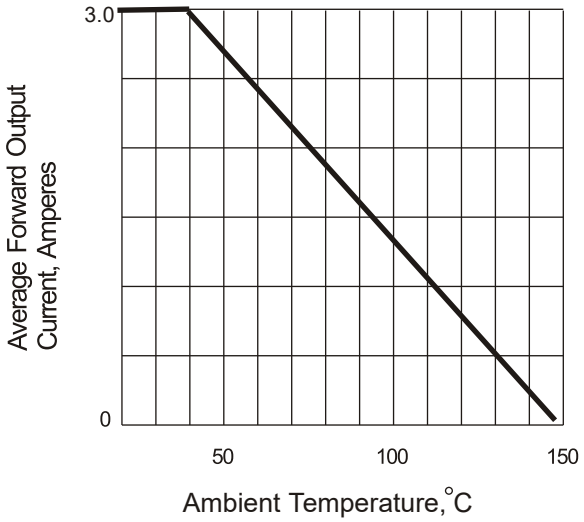


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

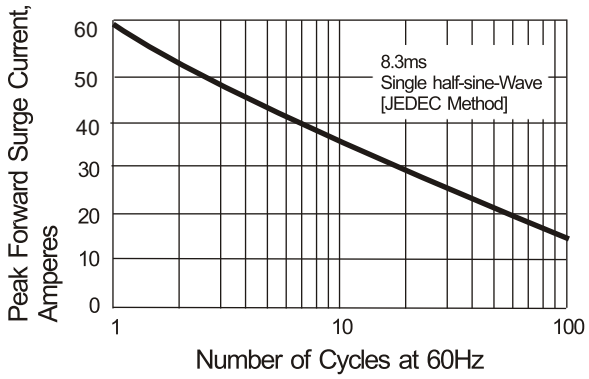


Fig. 3 Typical Instantaneous Forward Characteristics

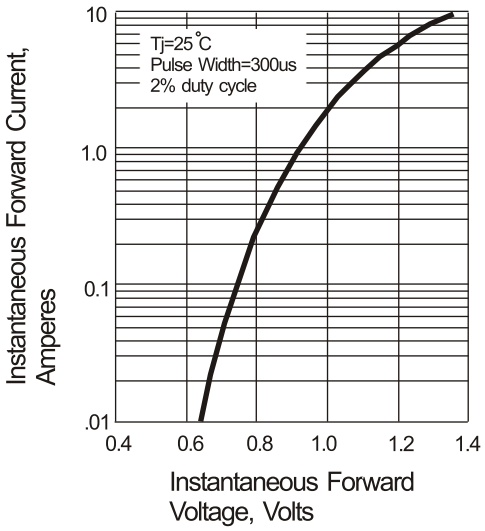


Fig. 4 Typical Reverse Characteristics

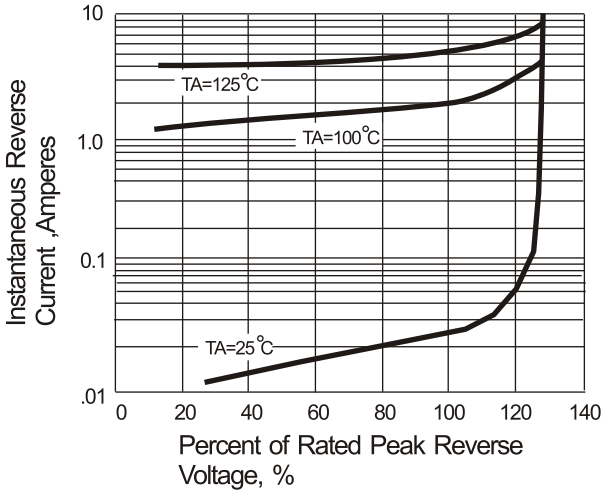
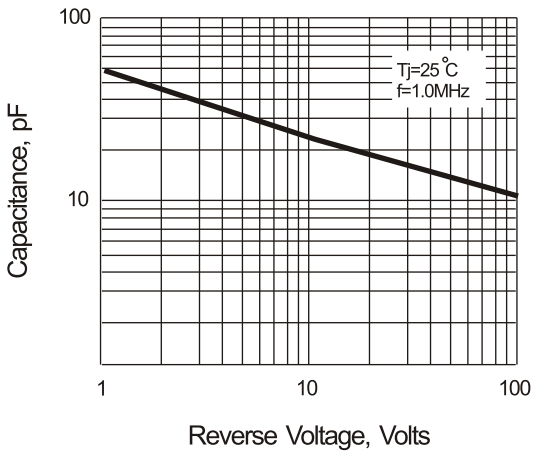


Fig. 5 Typical Junction Capacitance



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