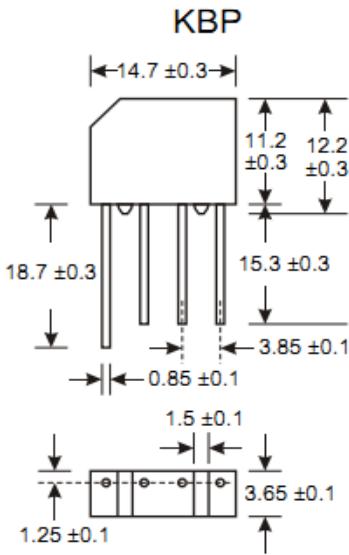




KBP3005 THRU KBP310

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes



Dimensions in millimeters (1mm=0.0394")

FEATURES

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-O

MECHANICAL DATA

Case: KBP-K Molded plastic body

Terminals: Plated leads solderable per MIL-STD-202, Method 208

Polarity: As marked on case

Mounting Position: Any

Marking: Type number

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog Number	SYMBOLS	KBP 3005	KBP 301	KBP 302	KBP 304	KBP 307	KBP 308	KBP 310	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward output rectified current at TA=50°C (Note 1)	I _(AV)								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}								Amps
Forward voltage per element @IF=3.0A	V _F								Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I _R								µA
Typical Thermal Resistance per leg (Note 2)	R _{θJA}								mA
	R _{θUL}								°C/W
Operating junction temperature range	T _{J,T_{STG}}								°C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

RATINGS AND CHARACTERISTIC CURVES KBP3005 THRU KBP310

Fig. 1 Forward Current Derating Curve

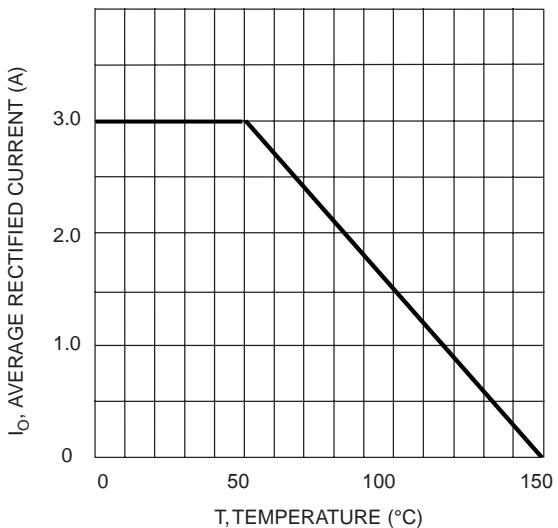


Fig. 2 Typical Fwd Characteristics

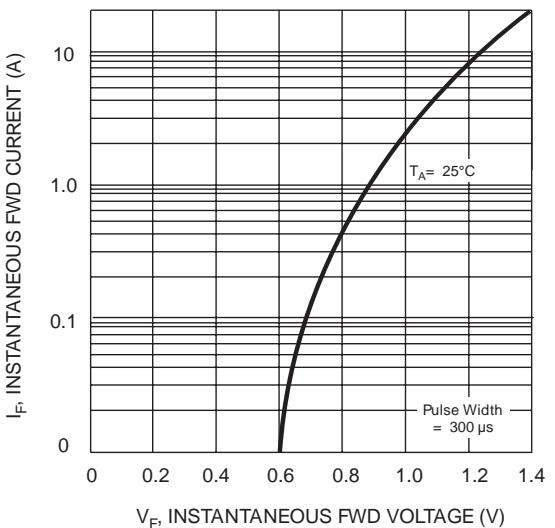


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

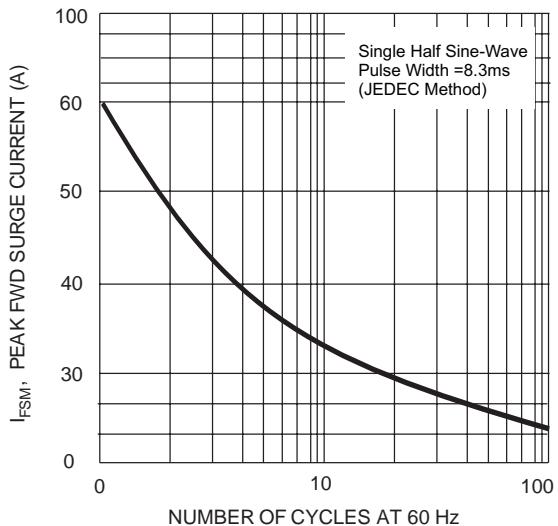
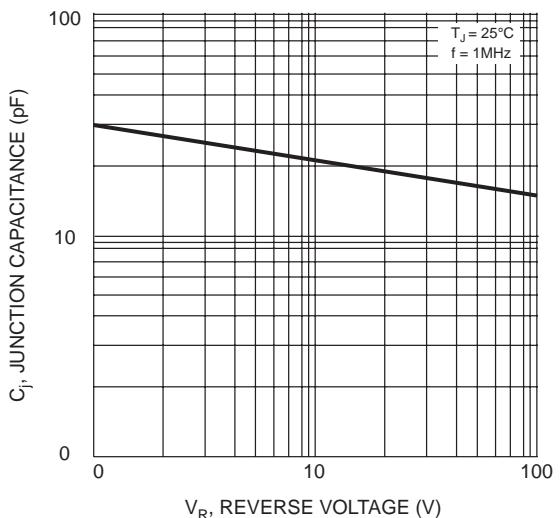


Fig. 4 Typical Junction Capacitance



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!