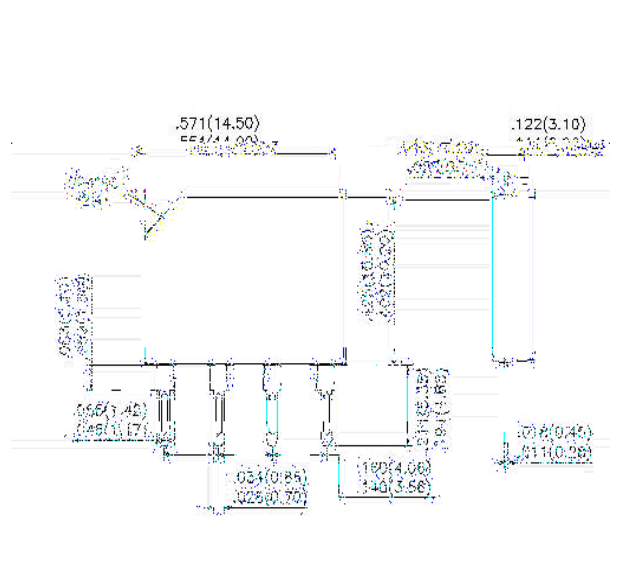
3.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifiter Reverse Voltage 50V to 1000V

GBP



SPACING

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 80 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265℃/10

Mechanical Data

Case:Molded plastic
Terminals:Platde leads solderable per MIL-STD-750, Method 2026
Polarity:Polarity symbols molded or Marked on body
Mounting Position:Any
Weight:0.05ounce,1.42 grams(approx)

Maximum Ratings & Thermal Characteristics

Rating at 25℃ ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.
For Capacitive load derate current by 20%

Parameter	Symbol	KBP 3005 / KBP 301	KBP 301 / KBP 302	KBP 302 / KBP 303	KBP 304 / KBP 304	KBP 306 / KBP 305	KBP 308 / KBP 306	KBP 310 / KBP 307	unit
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 TA=40℃	IF(AV)	3.0							A
Maximum instantaneous forward voltage drop per leg at 3.0A	VF	1.1							V
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	80							A
Maximum DC reverse current at ratde TA=25℃ DC blocking voltage per element TA=125℃	IR	5 500							UA
Operating temperature range	TJ,	-55to+150							℃
Storage temperature range	TSTG	-55to+150							℃

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

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

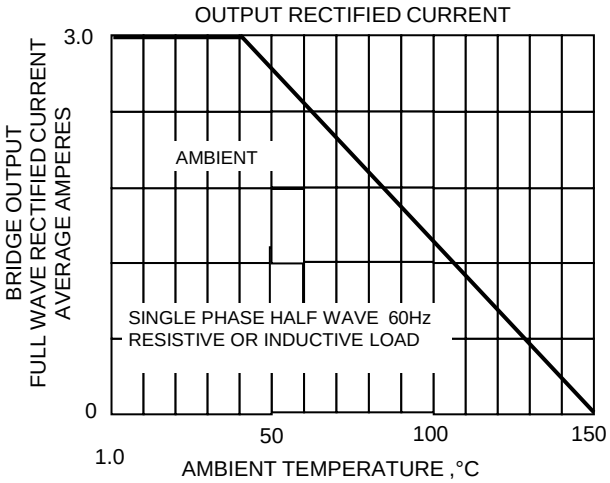


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

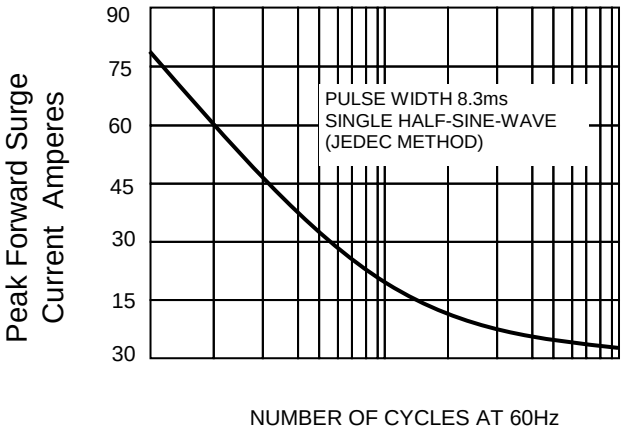


FIG.3-TYPICAL REVERSE CHARACTERISTICS

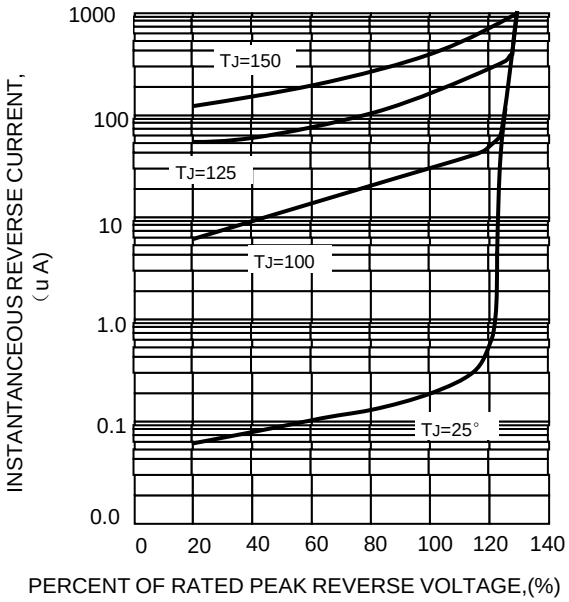
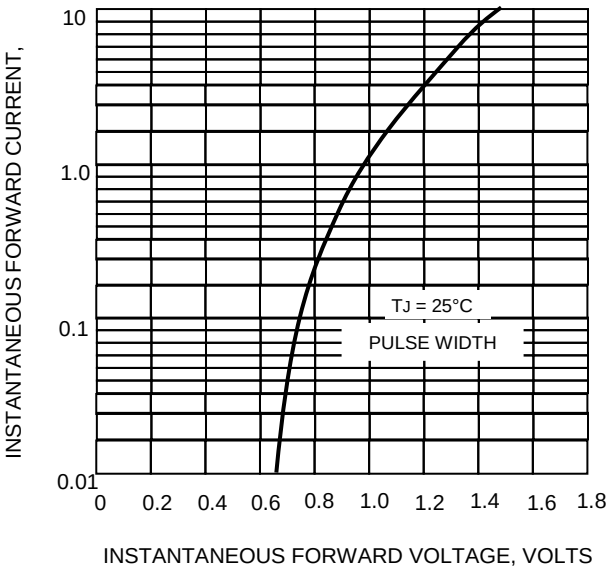



FIG.4-TYPICAL FORWARD CHARACTERISTICS