

VOLTAGE RANGE CURRENT

KBP

50 to 1000 Volts 3.0 Ampere

RoHS

Features

- Glass passivated chip junction
- Ideal for surface mounted applications
- Low leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

Mechanical Data

- Case: Molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Molded on body
- LeadP: Plated terminals solderable per MIL-STD-202E method 208C
- Weight: 0.039 ounce, 1.1gram

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 derate current by 20%

1	-	.561(14.2 .559(14.2	26)	.12: .110 .098×45	2(3.10) 6(2.95) °(2.5)	
.413(10.50)				.091(2.31)		
				.056(1.42) .046(1.17)	4.55)	043(1.10) .027(0.70)
			-	.033(0.85) .027(0.70)	.610(15.50)	
	Ų	W	153	.153(3.90) .145(3.70) (3.90)	<u> </u>	.017(0.43) .012(0.30)

Dimensions in inches and(milimeters)

153(3.90)

TYPE NUMBER			KBP 3005	KBP 301	KBP 302	KBP 304	KBP 306	KBP 308	KBP 310	UNIT
Maximum Reverse Peak Repetitive Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage			35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage			50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length at T_c =100°C			3.0					•	Amps	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)			80						Amps	
Rating for Fusing (t < 8.3ms)			23					A ² s		
Maximum Instantaneous Forward Voltage drop Per Bridge element 3.0A			1.1						Volts	
Maximum Reverse Current at rated DC blocking	TA=25°C		5						II A mana	
voltage per element	TA=125°C	T I _R	100							μAmps
		R _{⊝JC}				6				°C/W
Typical Thermal Resistance (NOTE 2)			5					°C/W		
			42					°C/W		
Operating and Storage Temperature Range			-55 to +150					℃		

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on P.C.B. with 0.033"×0.043"(1.00mm×1.30mm) copper pads.



10

1.0

0.1

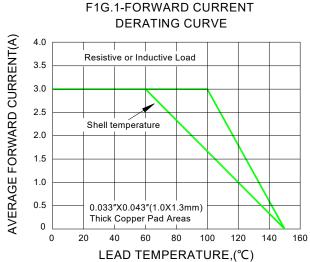
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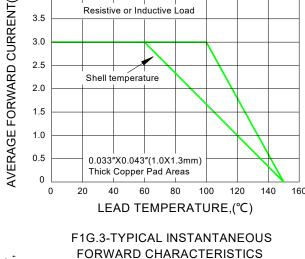
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Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)

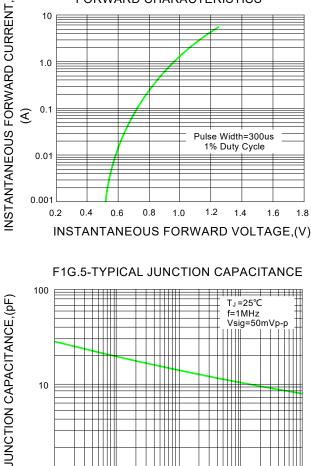






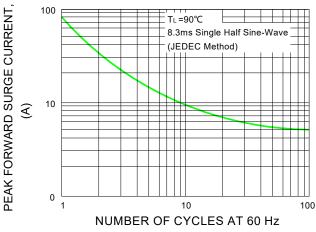
100

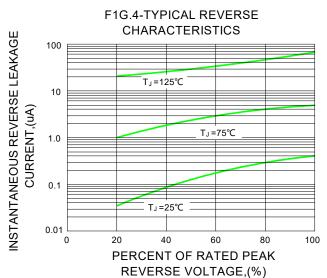
Pulse Width=300us 1% Duty Cycle



REVRESE VOLTAGE,(V)





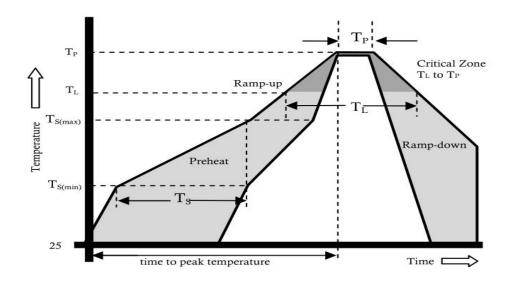


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Reflow Profile



	Reflow Condition	Pb-Free Assembly			
	Temperature Min.	+150°C			
Pre Heat	Temperature Max.	+200°C			
	Time(Min to Max)	60-180 secs.			
Average ra	mp up rate(Liquidus Temp(T _L) to peak)	3°C/sec. Max.			
Т	s(max) to T _L - Ramp-up Rate	3°C/sec. Max.			
Doflow	Temperature (T_L) (Liquidus)	+217°C			
Reflow	Temperature (T_L)	60-150 secs.			
	Peak Temp (T₅)	+(260+0/-5)°C			
Time v	vithin 5°C of actual Peak Temp (T♭)	25 secs.			
	Ramp-down Rate	6°C/sec. Max.			
-	Time 25°C to peak Temp (T₂)	8 min. Max.			
	Do not exceed	+260°C			



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