KBP301~KBP310

BRIDGE RECTIFIER

3A FORWARD CURRENT, 100 TO 1000V REVERSE VOLTAGE

DESCRIPTION

FEATURE

The KBP301~KBP310 is available in KBP package.

- High Current Capability
- Low Forward Voltage Drops
- Glass Passivated Chip Junction
- Low Power Loss, High Efficiency

MECHANICAL DATA

PIN DESCRIPTION

Case: KBP

Terminals: Solderable per MIL-STD-202, Method

208

• Approx. Weight:1.52mg/0.05oz



KBP

ORDERING INFORMATION

Package Type	Part Number			
	KBP301			
КВР	KBP302			
	KBP304			
	KBP306			
	KBP308			
	KBP310			
Note	SPQ: 500pcs/Reel			
AiT provides all RoHS Compliant Products				

PIN#	DESCRIPTION		
1	OUTPUT ANODE (+)		
2	INPUT PIN (~)		
3	INPUT PIN (~)		
4	OUTPUT CATHODE (-)		

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

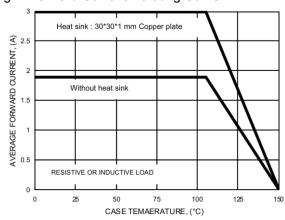
Ratings at 25°C ambient temperature unless otherwise specified.

Paran		Symbol		KBP302	KBP304	KBP306	KBP308	KBP310	Unit
Maximum R	epetitive	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100	200	400	600	900	4000	\ /
Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS			1.1	20	40	EG	70	700	\/
Voltage		V _{RWS}	14	28	42	56	70	700	V
Maximum DC		\/	100	200	400	600	800	1000	V
Blocking Vo	ltage	V_{DC}	100	200	400	000	800	1000	V
Average Re		I _(AV)	3						Α
Output Curre		I(AV)							
Peak Forwa	_								
Current 8.3r	_		80						
Half Sine W		I _{FSM}							Α
Superimpos									
Rated Load	(JEDEC								
Method)									
Peak Forwa	_								
Current @ T	-	I _{FSM}	I _{FSM} 110						
1.0ms single	e nair sine-								
wave									
Maximum		V _F	1.10						V
Instantaneous Forward Voltage at 2A									v
Maximum	lage at ZA								
DC Reverse Current at	∏=25°C		5						
Rated DC									
Blocking		I _R							mA
Voltage	T _J =125°C				500)			
Voltago	Voltage 1 J= 125 C		500						
I2t Rating fo	•	l²t	17.50						pF
(3ms≤t≤8.3ms)									•
Typical Junction		Сл	60						pF
Capacitance									
Typical Thermal		R _{θJA}	R _{eJA} 30						°C/W
Capacitance									
Typical Thermal		Rejc	ReJC 10						$^{\circ}$ C
Capacitance									
Operating		TJ	-55 ~ + 150					°C	
Temperature Range									
_	Storage Temperature		-55 ~ + 150					°C	
Range									



TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. Forward Current Derating Curve



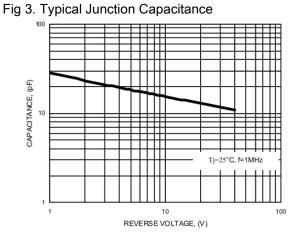


Fig 5. Typical Reverse Characteristics

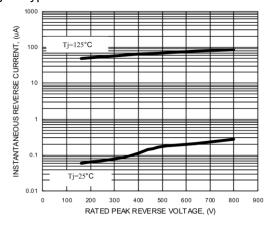


Fig 2. Maximum Non-Repetitive Surge Current

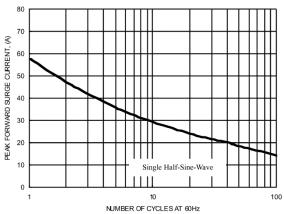
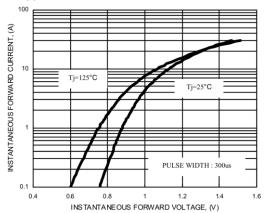


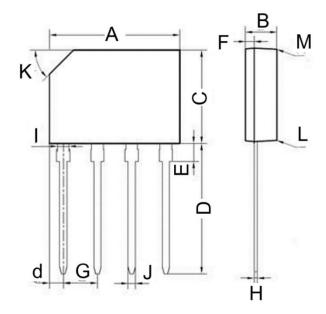
Fig 4. Typical Forward Characteristics



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PACKAGE INFORMATION

Dimension in KBP (Unit: mm)



DIM	MILLIMETERS				
DIM	MIN	MAX			
А	14.300	14.600			
В	3.000	3.300			
С	10.450	10.750			
D	14.410	14.710			
d	1.400	1.700			
Е	2.000	2.300			
F	0.900	1.200			
G	3.500	3.800			
Н	0.350	3.800			
I	1.430	1.450			
J	0.800	0.830			
K	2.7×45°(Typ.)				
L	-	3°			
М	-	2°			
∠	10°				

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