

High-reliability discrete products and engineering services since 1977

2KBP005-2KBP10M

SINGLE PHASE BRIDGE RECTFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

WAXIIIOW KATIIIOS									
Rating	Symbol	2KBP005M	2KBP01M	2KBP02M	2KBP04M	2KBP06M	2KBP08M	2KBP10M	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 T _A = 50°C	I _{F(AV)}	2.0 Ar					Amps		
Peak forward surge current single half-sine wave superimposed on rated load T _J = 150°C	I _{FSM}	60.0 Ar					Amps		
Rating for fusing (t < 8.3ms)	l²t	15.0 A					A ² s		
Typical thermal resistance per leg (1)	$R_{\Theta JA}$	30.0				°C/W			
	$R_{\Theta JL}$	11.0					C/ VV		
Operating and storage temperature range	T _J , T _{stg}	-55 to +165					°C		

Note 1: Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47 x 0.47" copper pads.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Characteristic	Symbol	2KBP005M	2KBP01M	2KBP02M	2KBP04M	2KBP06M	2KBP08M	2KBP10M	Units
Maximum instantaneous forward voltage drop per leg at 3.14A	V _F	1.1				Volts			
Maximum DC reverse current at rated DC blocking voltage per leg $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I _R				5 500				μΑ
Typical junction capacitance ⁽²⁾	C _J				25				pF

Note 2: Measured at 1.0 MHz and applied reverse voltage of 4.0V.



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MECHANICAL CHARACTERISTICS

Case:	Digi PA				
Marking:	Alpha-Numeric				
Polarity:	See below				

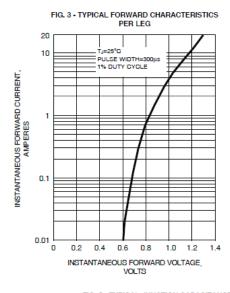
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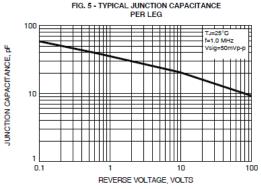
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	Digi PA							
	Inc	hes	Millimeters					
	Min	Max	Min	Max				
Α	0.560	0.600	14.224	15.240				
В	0.460	0.500	11.684	12.700				
С	0.420	0.460	10.668	11.684				
D	0.150	TYP	3.810 TYP					
Н	0.500	-	12.700	-				
J	0.150	TYP	3.810 TYP					
K	0.028	0.034	0.711	0.863				
L	0.140	0.160	3.556	4.064				
М	0.180	0.200	4.572	5.080				
N	0.075	0.115	1.905	2.921				



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