imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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KBPC50005T/W thru KBPC5004T/W

Single Phase Silicon Bridge Rectifier

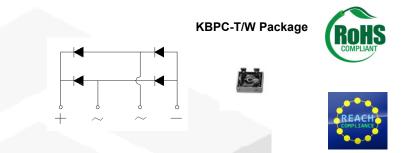
$V_{\text{RRM}} = 50 \text{ V} - 400 \text{ V}$ $I_0 = 50 \text{ A}$

Features

- High efficiency
- Silicon junction
- Metal case
- Types from 50 V to 400 V $\mathrm{V}_{\mathrm{RRM}}$
- Not ESD Sensitive

Mechanical Data

Case: Mounted in the bridge encapsulation Mounting: Hole for #10 screw Polarity: Marked on case



Maximum ratings at Tc = 25 °C, unless otherwise specified (KBPCXXXXT uses KBPC-T package while KBPCXXXXW uses KBPC-W package)

Parameter	Symbol	Conditions	KBPC50005T/W	KBPC5001T/W	KBPC5002T/W	KBPC5004T/W	Unit
Repetitive peak reverse vol	Itage V _{RRM}		50	100	200	400	V
RMS reverse voltage	V _{RMS}		35	70	140	280	V
DC blocking voltage	V _{DC}		50	100	200	400	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics at Tc = 25 °C, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

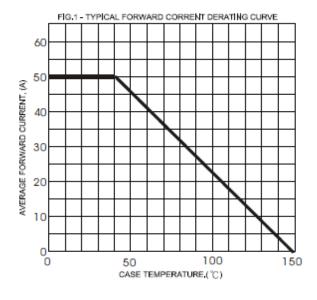
For capacitive load derate current by 20%

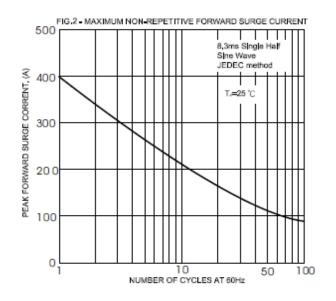
Parameter	Symbol	Conditions	KBPC50005T/W	KBPC5001T/W	KBPC5002T/W	KBPC5004T/W	Unit
Maximum average forward rectified current	Ι _ο	$T_c = 40 \ ^{\circ}C$	50	50	50	50	А
Peak forward surge current	I _{FSM}	8.3 ms half sine-wave	400	400	400	400	Α
Maximum instantaneous forward voltage per leg	V_{F}	I _F = 25.0 A	1.1	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage per leg	I _R	T _c = 25 °C T _c = 100 °C	5 500	5 500	5 500	5 500	μA
Thermal characteristics							
Typical thermal resistance per leg ¹	$R_{\Theta J A}$		2.5	2.5	2.5	2.5	°C/W

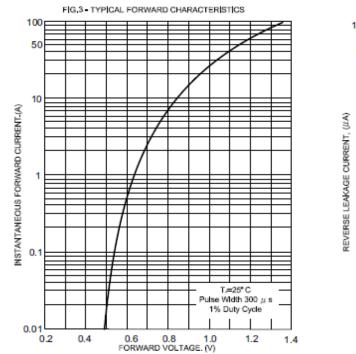
¹ - Thermal resistance from Junction to Ambient on P.C. board mounting

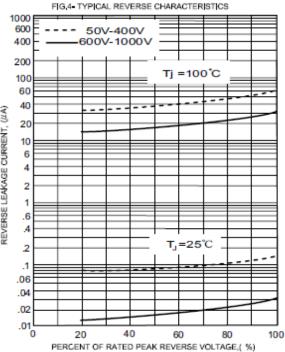


KBPC50005T/W thru KBPC5004T/W











Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

