

## Feature

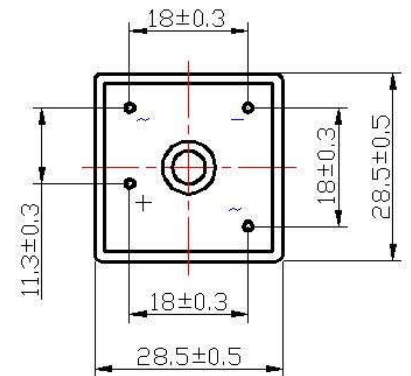
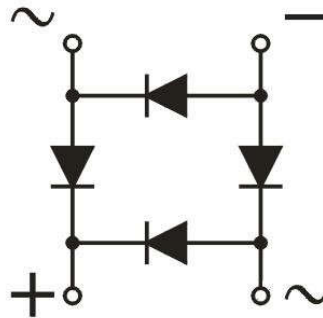
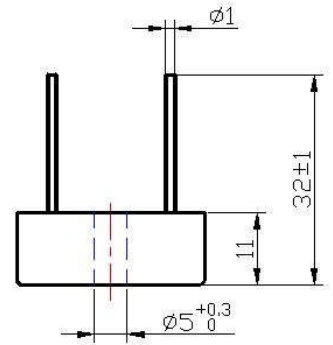
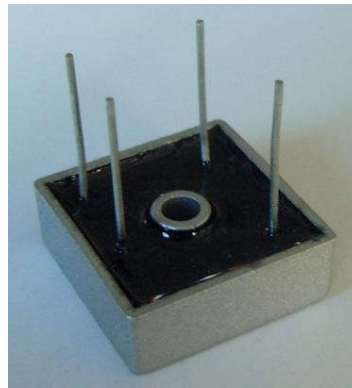
- 6.3mm standard pin
- Low forward voltage drop
- Isolation voltage 2500V~
- UL registered E304417

## Application

- Power supply for DC power device
- Input rectifier for PWM convertor
- Power supply for DC device

## Advantage

- Easy mounting
- Small volume, light weight
- Low thermal resistance  
high heat-conduction rate  
Low temperature rise



### Maximum value

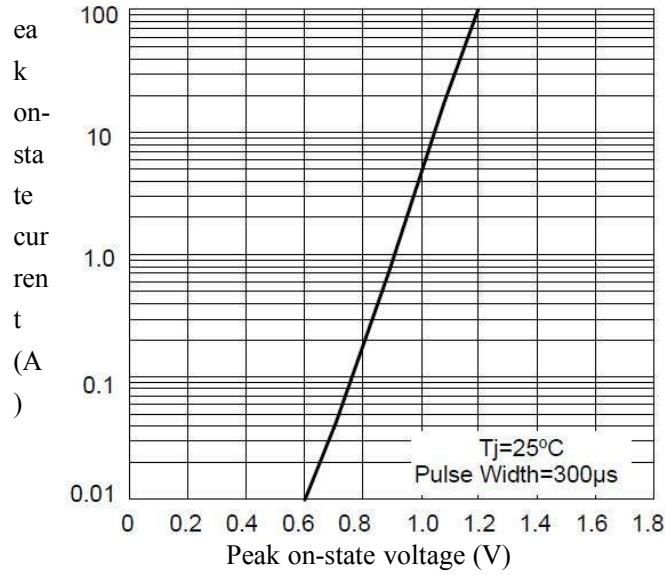
Symbol	Parameter	Rating				Unit
		KBPC2504W	KBPC2506W	KBPC2508W	KBPC2510W	
$V_{RRM}$	Peak reverse repetitive voltage	400	600	800	1000	V
$V_{RSM}$	Peak reverse non-repetitive voltage	500	700	900	1100	V

Symbol	Parameter	Test condition	Rating	Unit
$I_{F(AV)}$	Forward average current	180° sine half-wave 50HZ single-sided heat dissipation, $T_C=55^\circ\text{C}$	35	A
$I_{FSM}$	Forward surge current	$t=10\text{ms}, 50\text{HZ}, \text{sin}, T_{jm}$	400	A
$I^2t$	$I^2t$ value		660	A <sup>2</sup> S
$V_{ISO}$	Isolation voltage	AC one minute	2500	V
$T_j$	Operating junction temperature		-40 to +150	°C
$T_{jm}$	Rated junction temperature		150	°C
$T_{stg}$	Storage temperature		-40 to +125	°C
$M_d$	Mounting torque M5		2	N·m
$W_t$	Weight		21	g

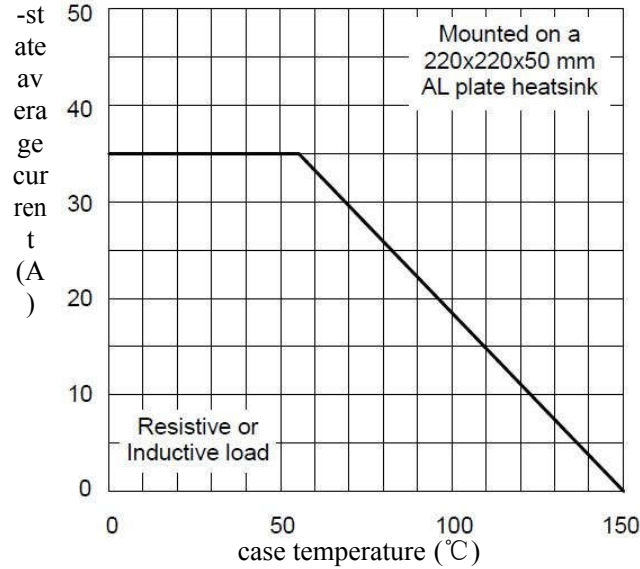
### Electrical characteristics

Symbol	Parameter	Test condition	Rating	Unit
$I_{RRM}$	Peak reverse repetitive current	$V_R=V_{RRM}$ , sine half-wave, $T_j=25^\circ\text{C}$	5	μA
		$V_R=V_{RRM}$ , sine half-wave, $T_j=150^\circ\text{C}$	500	μA
$V_{FM}$	Peak forward voltage	$I_{FM}=17.5\text{A}$ , $T_j=25^\circ\text{C}$	1.1	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-sided heat dissipation, sine half-wave	1.4	°C/W

On-state current and voltage



On-state average current vs case temperature



On-state surge current vs cycles

