

# KBPC 50



## Power Bridge Rectifiers

### KBPC 50

#### Features

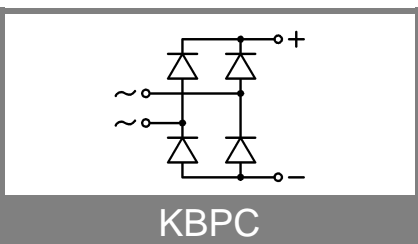
- Square plastic case with isolated metal base plate and fast-on connectors
- Easy chassis mounting
- Allow easy heatsink mounting
- Blocking voltage up to 1000 V
- High surge current
- Terminal position and case format allow easy polarity identification

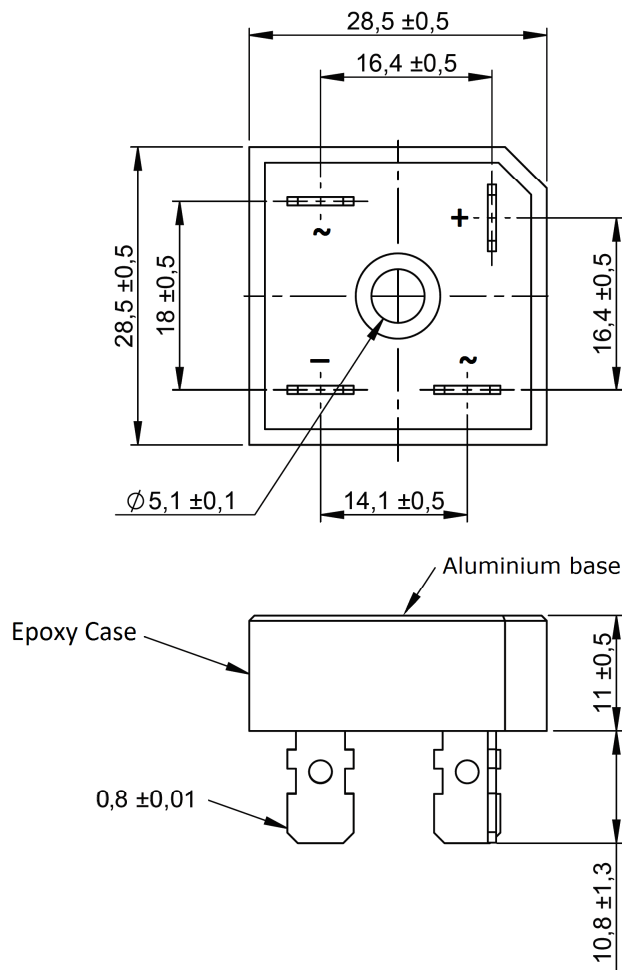
#### Typical Applications

- Rectifier for power supplies
- Input rectifier for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network:  
RC: 0.1  $\mu$ F, 50  $\Omega$  ( $P_R = 1$  W)

$V_{RSM}, V_{RRM}$ V	$V_{VRMS}$ V	$I_D = 50$ A ( $T_C = 55$ °C) Types	$C_{max}$ $\mu$ F	$R_{min}$ $\Omega$
400		KBPC 50/04		
800		KBPC 50/08		
1000		KBPC 50/10		

Symbol	Conditions	Values	Units
$I_D$	$T_C = 55$ °C, sin 180°	50	A
$I_{FSM}$	$T_{vj} = 25$ °C, 10 ms	400	A
$i^2t$	$T_{vj} = 25$ °C, 8,3 ... 10 ms	800	A <sup>2</sup> s
$V_F$	$T_{vj} = 25$ °C, $I_F = 25$ A	max. 1,1	V
$I_{RD}$	$T_{vj} = 25$ °C, $V_{RD} = V_{RRM}$	10	$\mu$ A
	$T_{vj} = 150$ °C, $V_{RD} = V_{RRM}$	200	$\mu$ A
$R_{th(j-c)}$	total	1,5	K/W
$R_{th(c-s)}$	total		K/W
$T_{vj}$		-40...+150	°C
$T_{stg}$		-40...+150	°C
$V_{isol}$	a.c. 50...60 Hz; r.m.s to heatsink	2500	V~
$M_s$		$2 \pm 15\%$	Nm
$M_t$			Nm
$a$			m/s <sup>2</sup>
$w$	approx.	20	g
Case		KBPC	





Case KBPC

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