

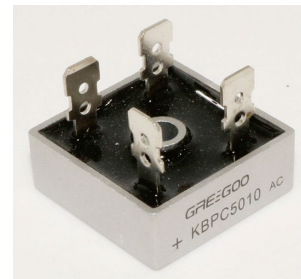
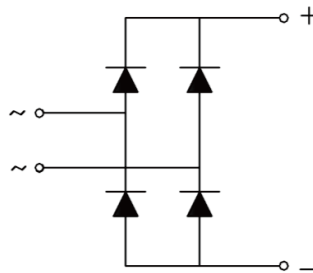
Feature

- International standard package
- Low forward voltage drop
- Isolation voltage 2000V

Application

- DC power suppliers for apparatus device
- Input rectifying power supply for PWM converters
- Inverter welders

Maximum value



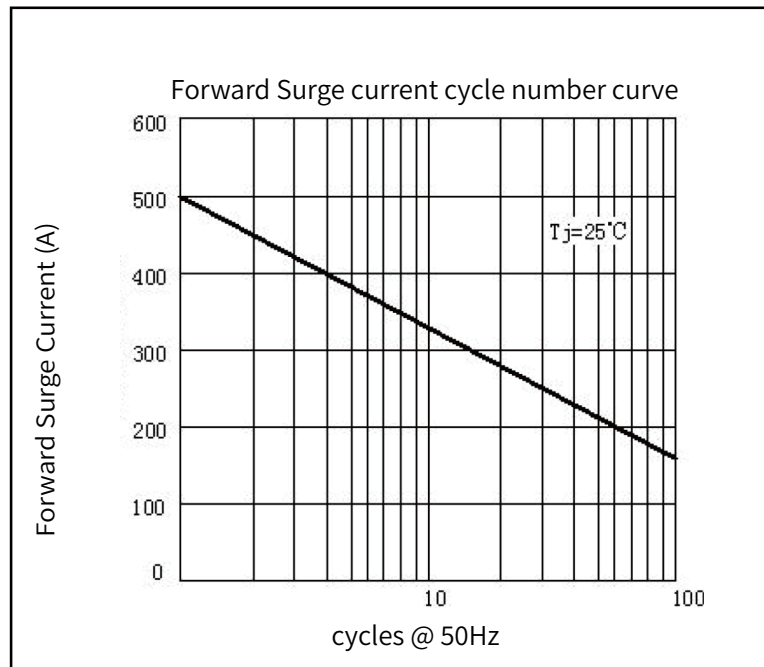
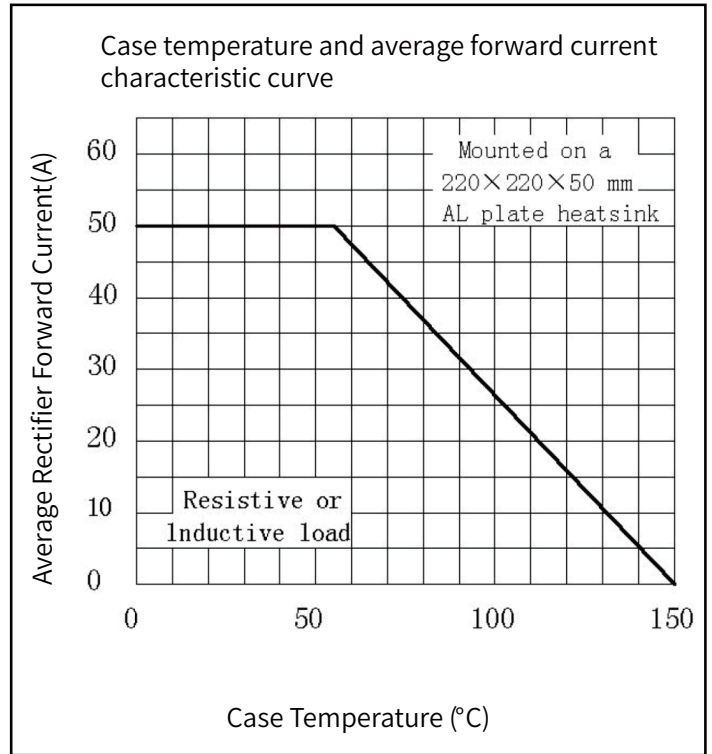
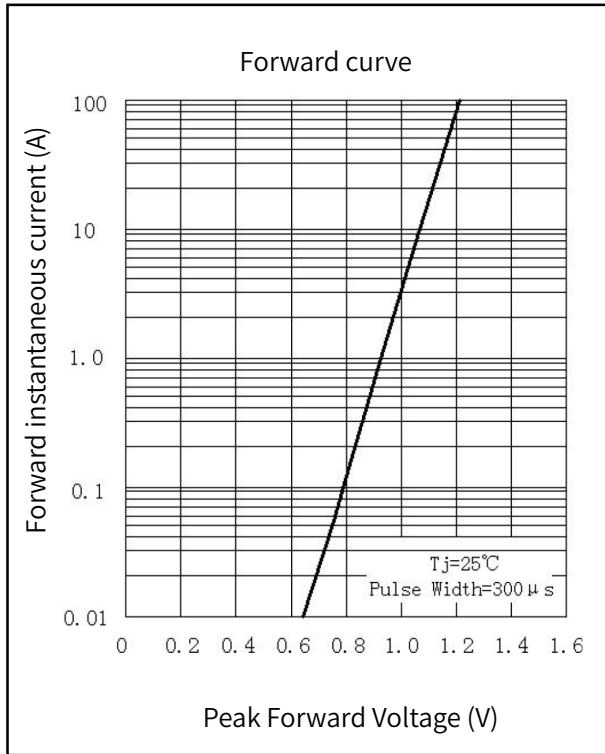
Symbol	Parameter	Rating			Unit
		KBPC5002	KBPC5006	KBPC5010	
V_{RRM}	Peak reverse repetitive voltage	200	600	1000	V
V_{RSM}	Peak reverse non-repetitive voltage	300	700	1100	V

Symbol	Parameter	Test condition	Rating	Unit
$I_{F(AV)}$	Mean on-state current	180° half sine wave 50Hz One side heat radiation $T_c: 55^\circ\text{C}$	50	A
I_{FSM}	Forward surge current	$t=10\text{ms}, 50\text{Hz}, \sin, T_{jm}$	500	A
I^2t	I^2t value	$V_R = 0.6V_{RRM}, T_{jm}$	1250	A^2S
V_{ISO}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}, I_{iso}: 1\text{mA}(\text{max})$	2000	V
T_j	Operating junction temperature		-40 to +150	$^\circ\text{C}$
T_{jm}	Rated junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-40 to +150	$^\circ\text{C}$
M_d	Mounting torque (copper plate) M5		2	$\text{N} \cdot \text{M}$
Wt	weight		21	g

Electrical characteristics :

Symbol	Parameter	Test condition	Rating	Unit
I_{RRM}	Peak reverse repetitive current	$V_R = V_{RRM}$, sine half $T_j = 25^\circ\text{C}$	5	μA
		$V_R = V_{RRM}$, sine half $T_j = 150^\circ\text{C}$	3	mA
V_{FM}	Peak forward voltage	$I_{FM} = 25\text{A}, T_j = 25^\circ\text{C}$	1.1	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-side heat dissipation, sine half wave	1.5	$^\circ\text{C}/\text{W}$

Performance Curves



Dimension

15

