



KBPC25.. Series

Single Phase Bridge

Power Modules

Features

- .. Universal, 3 way terminals:
push-on, wrap around or solder
- .. High thermal conductivity
package, electrically insulated case
- .. Center hole fixing
- .. Excellent power/volume ratio
- .. 2500V RMS isolating voltage

Typical Applications

- .. Power supplies
- .. Machine tool controls
- .. Power supplies
- .. Battery chargers
- .. Welders



Forward Conduction

Parameters		KBPC25..	Units	Conditions		
I _O	Maximum DC output current	25	A	Resistive or inductive load		
		20	A	Capacitive load		
	@ Case temperature	55	°C			
I _{FSM}	Maximum peak, one-cycle non-repetitive forward current	400	A	t = 10ms	No voltage	Initial T _J =T _J max.
		420		t = 8.3ms	reapplied	
		335		t = 10ms	100% V _{RRM}	
		350		t = 8.3ms	reapplied	
I _{2t}	Maximum I _{2t} for fusing	790	A ² s	t = 10ms	No voltage	
		725		t = 8.3ms	reapplied	
		560		t = 10ms	100% V _{RRM}	
		510		t = 8.3ms	reapplied	
I _{2tL}	Maximum I _{2tL} for fusing	7.9	KA ² s ^{1/2}	I _{2t} for time t _x = I _{2tL} x t _x ; 0.1 ≤ t _x ≤ 10ms, V _{RRM} = 0V		
V _{FM}	Maximum forward voltage drop	1.2	V	T _J = 25 °C, I _{FM} = I _F avg (arm)		
I _{RRM}	Max. DC reverse current	5.0	μA	T _J = 25 °C, per diode at V _{RRM}		
V _{INS}	RMS isolation voltage base plate	2500	V	f = 50 Hz, t = 1s		



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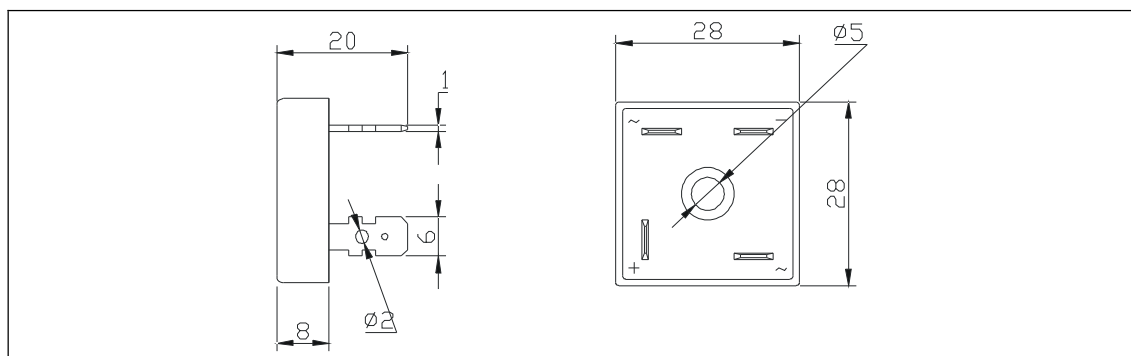
Voltage Ratings

Type numbe	Voltage Code	VRRM , max repetitive peak AC rev. voltage TJ = TJ max. V	VRSM , max non-repetitive peak AC rev. voltage TJ = TJ max. V	IRRM max. @ rated VRRM TJ = TJ max. mA	RRM max. D.C. rev. curr. @ T= 125°C (μ A)
KBPC25..A	02	200	300	2	500
	04	400	500	2	500
	06	600	700	2	500
	08	800	900	2	500
	10	1000	1100	2	500
	12	1200	1300	2	500
	14	1400	1500	2	500
	16	1600	1700	2	500

Ordering Information Table

Device Code	
	KBPC 35 10
	① ② ③
1	Circuit configuration: Single phase bridge coding
2	Current rating code:----- 25=25A(AVG) 35=35A(AVG)
3	Voltage Code: code x 100 = VRRM

Outline Table



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