



Power Bridge Rectifiers

SKB 35

Features

- Square plastic case with isolated metal base plate and fast-on connectors
- Blocking voltage up to 1600 V
- High surge current
- Easy chassis mounting
- UL recognized plastic material

Typical Applications

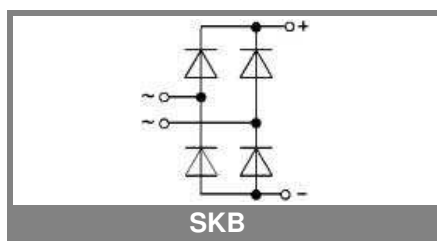
- Rectifier for power supplies
- Input rectifier for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network:
RC: 50 Ω , 0.1 μ F ($P_R = 1$ W)

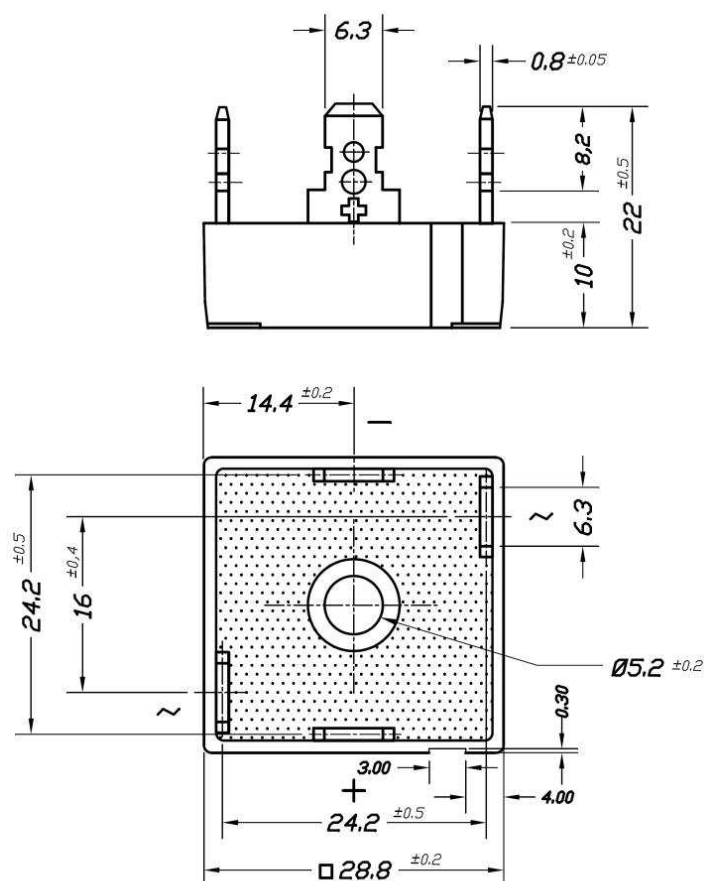
1) Freely suspended or mounted on an insulator

2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

V_{RSM}, V_{RRM} V	V_{VRMS} V	$I_D = 35$ A ($T_c = 29$ °C) Types	C_{max} μ F	R_{min} Ω
400	125	SKB 35/04		0,3
800	250	SKB 35/08		0,7
1200	400	SKB 35/12		1
1600	500	SKB 35/16		1,5

Symbol	Conditions	Values	Units
I_D	$T_a = 45$ °C, P1/120 black $T_a = 40$ °C, chassis ²⁾	22 13,5	A A
I_{DCL}	$T_a = 45$ °C, P1/120 black $T_a = 40$ °C, chassis ²⁾ $T_a = 45$ °C, isolated ¹⁾	18,5 12 3,9	A A A
I_{FSM}	$T_{vj} = 25$ °C, 10 ms $T_{vj} = 150$ °C, 10 ms	380 330	A A
i^2t	$T_{vj} = 25$ °C, 8,3 ... 10 ms $T_{vj} = 150$ °C, 8,3 ... 10 ms	700 540	A ² s A ² s
V_F	$T_{vj} = 25$ °C, $I_F = 150$ A	max. 1,9	V
$V_{(TO)}$	$T_{vj} = 150$ °C	max. 0,85	V
r_T	$T_{vj} = 150$ °C	max. 7	m Ω
I_{RD}	$T_{vj} = 25$ °C, $V_{RD} = V_{RRM}$ $T_{vj} =$ °C, $V_{RD} = V_{RRM} \geq V$	300	μ A μ A
I_{RD}	$T_{vj} = 150$ °C, $V_{RD} = V_{RRM}$ $T_{vj} =$ °C, $V_{RD} = V_{RRM} \geq V$	5	mA mA
t_{rr}	$T_{vj} = 25$ °C	10	μ s
f_G		2000	Hz
$R_{th(j-a)}$	isolated ¹⁾ chassis ²⁾	14,5 4,2	K/W K/W
$R_{th(j-c)}$	total	1,5	K/W
$R_{th(c-s)}$	total	0,15	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 55 ... + 150	°C
V_{isol}	a.c. 50 ... 60 Hz; r.m.s.; 1 s / 1 min. to heatsink	3000 / 2500 2 $\pm$ 15 %	V~ Nm Nm m/s ²
M_s			
M_t			
a			
w	approx.	18	g
F_u		25	A
Case		G 10b	





Case G 10b

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