V_{RSM}, V_{RRM} V	V_{VRMS} V	I_D = 35 A (T_c = 29 °C) Types	C_{max} µF	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

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

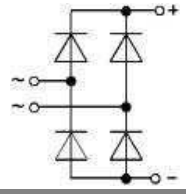
Typical Applications

- 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 µF (P_R = 1 W)

1) Freely suspended or mounted on an insulator

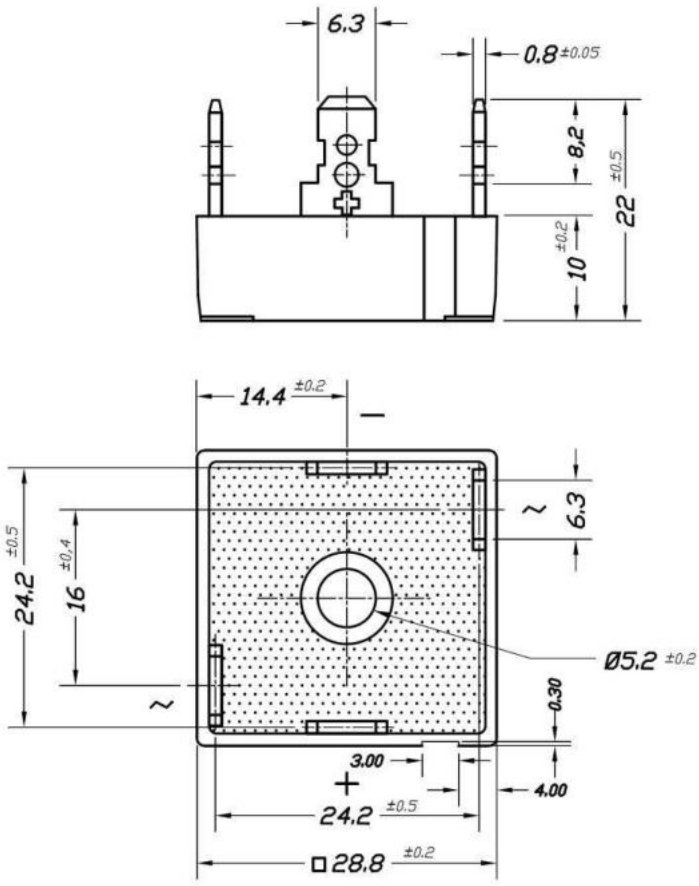
2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

Symbol	Conditions	Values	Units
I_D	T_a = 45 °C, P1/120 black	22	A
	T_a = 40 °C, chassis[2)]	13,5	A
I_{DCL}	T_a = 45 °C, P1/120 black	18,5	A
	T_a = 40 °C, chassis[2)]	12	A
	T_a = 45 °C, isolated[1)]	3,9	A
I_{FSM}	T_{vj} = 25 °C, 10 ms	380	A
	T_{vj} = 150 °C, 10 ms	330	A
i²t	T_{vj} = 25 °C, 8,3 ... 10 ms	700	A²s
	T_{vj} = 150 °C, 8,3 ... 10 ms	540	A²s
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	mΩ
I_{RD}	T_{vj} = 25°C, V_{RD}=V_{RRM}	300	µA
	T_{vj} = °C, V_{RD}=V_{RRM} ≥ V		µA
I_{RD}	T_{vj} = 150°C, V_{RD}=V_{RRM}	5	mA
	T_{vj} = °C, V_{RD}=V_{RRM} ≥ V		mA
t_{rr}	T_{vj} = 25°C	10	µs
f_G		2000	Hz
$R_{th(j-a)}$	isolated[1)]	14,5	K/W
	chassis[2)]	4,2	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.	3000 / 2500	V~
M_s	to heatsink	2 ± 15 %	Nm
M_t			Nm
a			m/s²
w	approx.	18	g
Fu		25	A
Case		G 10b	



SKB

Dimensions in mm



Case G 10b

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