

Power Bridge Rectifiers

SKB 35

Features

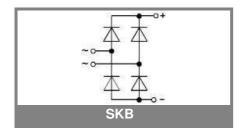
- Square plastic case with isolated metal base plate and fast-on connectors
- Blocking voltage up to 1600 V
- · High surge current
- Easy chassis mounting
- UL recognized plastic material

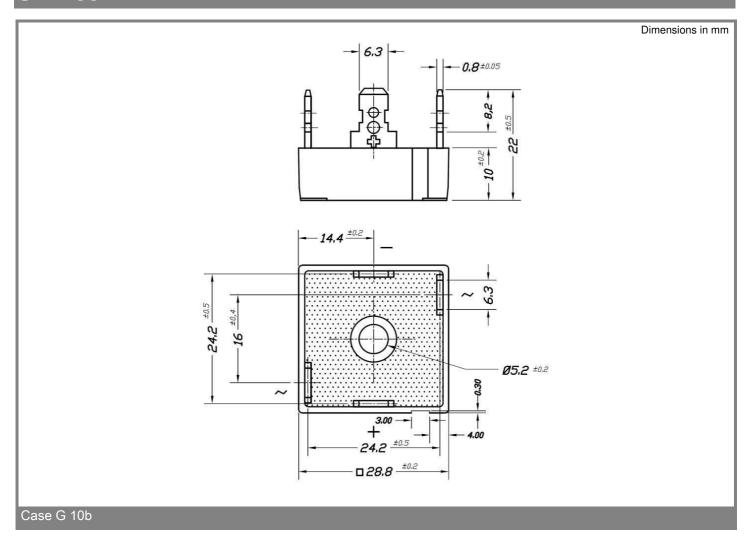
Typical Applications

- 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)
- 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 _{VRMS}	I _D = 35 A (T _c = 29 °C)	C _{max}	R_{\min}
V	V	Types	μF	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	22	Α
	T _a = 40 °C, chassis ²⁾	13,5	Α
I _{DCL}	T _a = 45 °C, P1/120 black	18,5	Α
	T _a = 40 °C, chassis ²⁾	12	Α
	T _a = 45 °C, isolated ¹⁾	3,9	Α
I _{FSM}	T _{vi} = 25 °C, 10 ms	380	А
	T _{vi} = 150 °C, 10 ms	330	Α
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 _{vi} = 150°C	max. 7	mΩ
I_{RD}	$T_{vj}^{3} = 25^{\circ}C, V_{RD} = V_{RRM}$	300	μA
	$T_{vi} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		μA
I_{RD}	T_{vj}^{3} = 150°C, $V_{RD} = V_{RRM}$	5	mA
	$T_{vj} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		mA
t _{rr}	$T_{vi} = 25^{\circ}C$	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
Mt			Nm
а			m/s²
w	approx.	18	g
Fu		25	А
Case		G 10b	





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