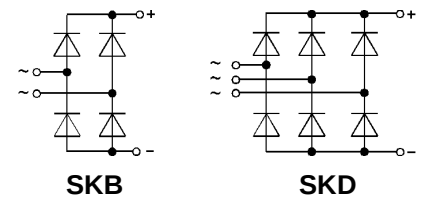


Power Bridge Rectifiers

SKB 50 SKD 50



Features

- Isolated metal case with screw terminals
- Blocking voltage to 1600 V
- High surge current
- **SKB** = single phase bridge rectifier
- **SKD** = three phase bridge rectifier
- Easy chassis mounting

Typical Applications

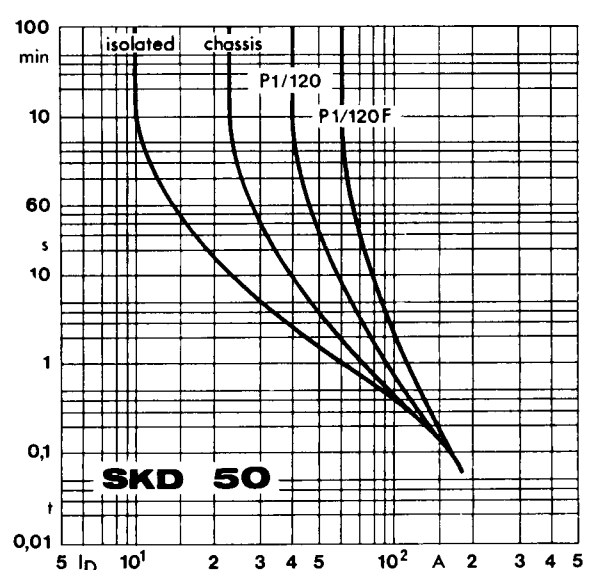
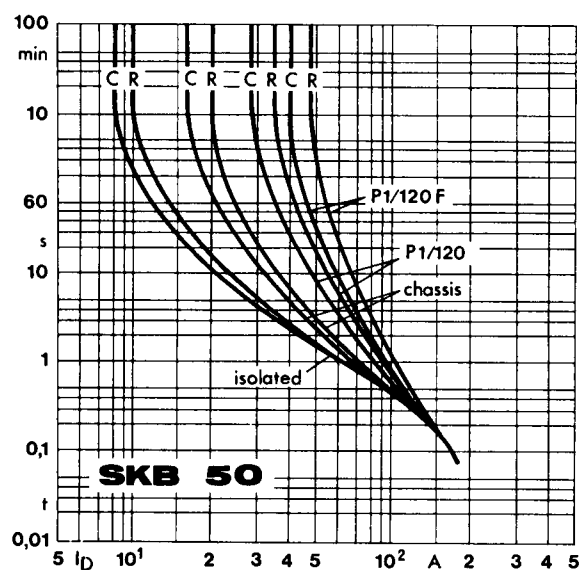
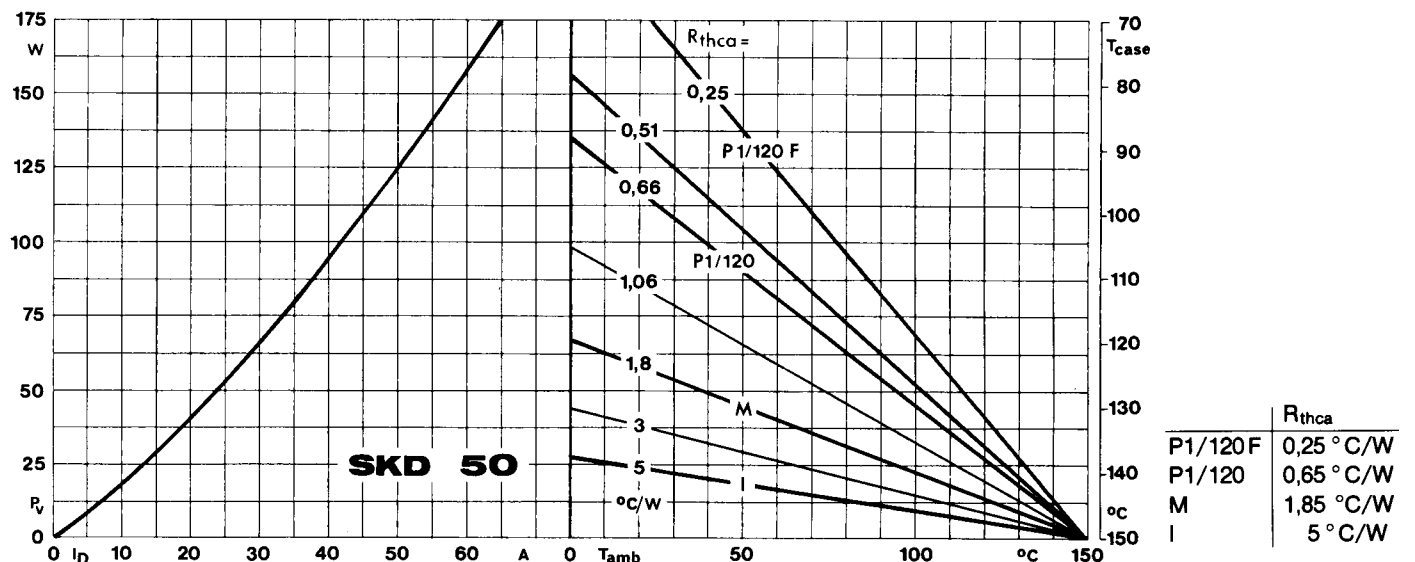
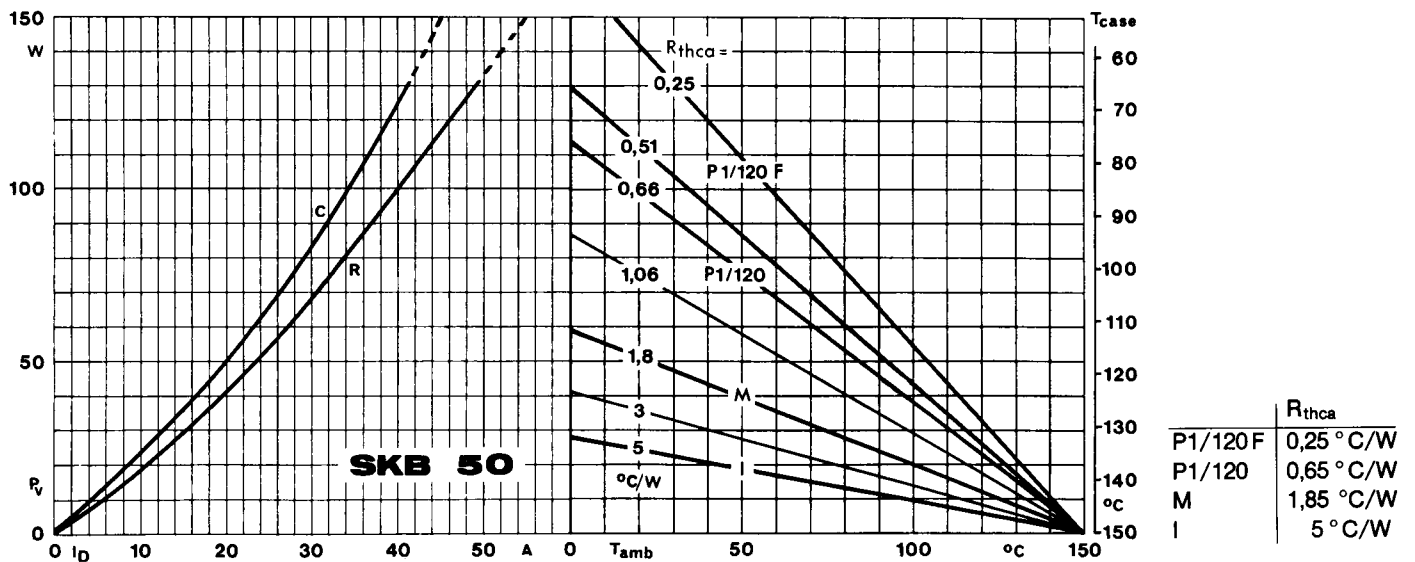
- Single and three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

V _{RSM} V _{RRM} V	I _D (T _{case} = . . .)			
	50 A (64 °C)		50 A (92 °C)	
	Types	R _{min} Ω	Types	R _{min} Ω
200	SKB 50/02 A3	0,1	SKD 50/02 A3	0,1
400	SKB 50/04 A3	0,3	SKD 50/04 A3	0,2
800	SKB 50/08 A3	0,4	SKD 50/08 A3	0,4
1200	SKB 50/12 A3	0,6	SKD 50/12 A3	0,6
1400	SKB 50/14 A3	0,7	SKD 50/14 A3	0,7
1600	SKB 50/16 A3	0,8	SKD 50/16 A3	0,8

Symbol	Conditions	SKB 50	SKD 50	Units
I _D	T _{amb} = 45 °C; isolated ¹⁾ chassis ²⁾ P1A/120	10 20 34	10 22 40	A A A
I _{DCL}	T _{amb} = 35 °C; P1A/120 F T _{amb} = 45 °C; isolated ¹⁾ chassis ²⁾ P1A/120 T _{amb} = 35 °C; P1A/120 F	47 8 16 29 40	60 10 22 40 60	A A A A A
I _{FSM}	T _{vj} = 25 °C, 10 ms	750		A
i ² t	T _{vj} = 150 °C, 10 ms T _{vj} = 25 °C, 8,3...10 ms T _{vj} = 150 °C, 8,3...10 ms	600 2800 1800		A A ² s A ² s
V _F	T _{vj} = 25 °C; I _F = 150 A	1,6		V
V _(TO)	T _{vj} = 150 °C	0,85		V
r _T	T _{vj} = 150 °C	8		mΩ
I _{RD}	T _{vj} = 25 °C; V _{RD} = V _{RRM} T _{vj} = 150 °C; V _{RD} = V _{RRM}	1 10		mA mA
t _{rr} f _G	T _{vj} = 25 °C	typ. 10 2000		μs Hz
R _{thjc}	total	0,65	0,45	°C/W
R _{thch}	total	0,06	0,06	°C/W
R _{thja}	T _{amb} = 35 °C; P1A/120 F isolated ¹⁾ chassis ²⁾ P1A/120	0,9 5,7 2,5 1,3	0,7 5,5 2,3 1,1	°C/W °C/W °C/W °C/W
T _{vj} T _{stg}		- 40...+ 150 - 55...+ 150		°C °C
V _{isol} RC	a.c. 50...60 Hz; r.m.s., 1 s / 1 min P _R = 1 W	3000 / 2500 50 0,1 50		V~ Ω μF A
F _u M ₁	to heatsink	5 ± 15 %		Nm
M ₂	to terminals	44 ± 15 %		lb. in.
w		3 ± 15 % 26 ± 15 % 250		Nm lb. in. g
Case		G 14	G 15	

¹⁾ Freely suspended or mounted on an insulator

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



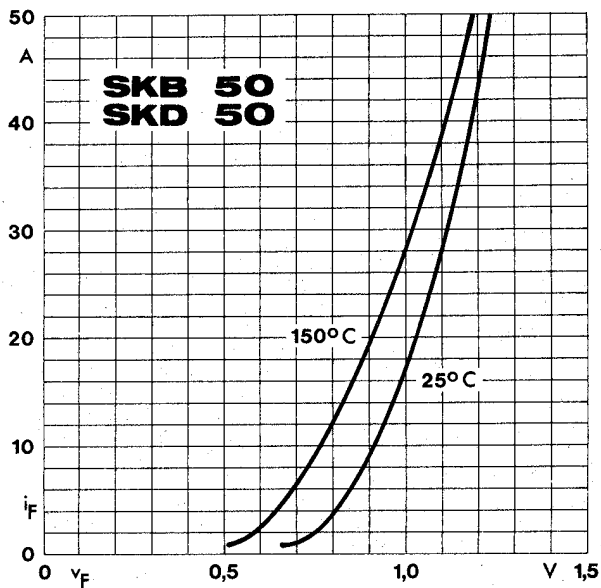
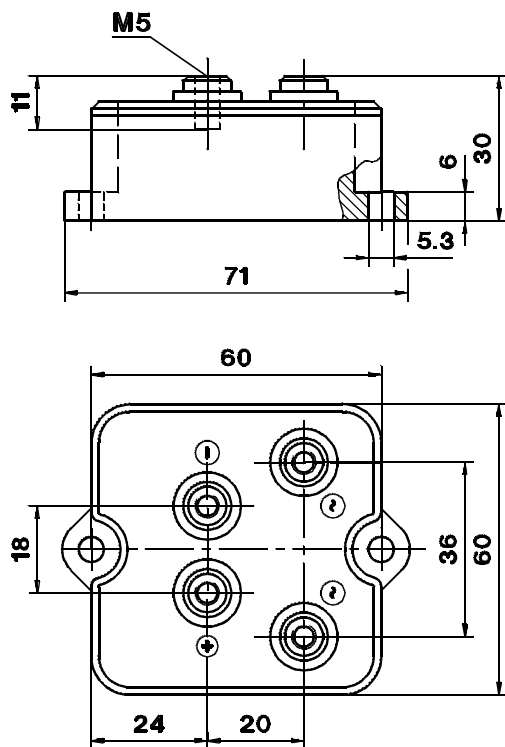


Fig. 9 Forward characteristics of a single diode

SKB 50

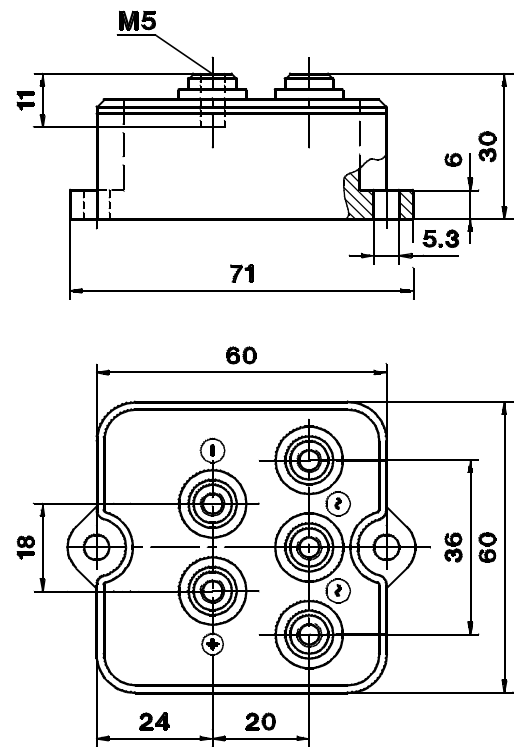
Case G 14



Dimensions in mm

SKD 50

Case G 15



Dimensions in mm