



Power Bridge Rectifiers

SKD 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

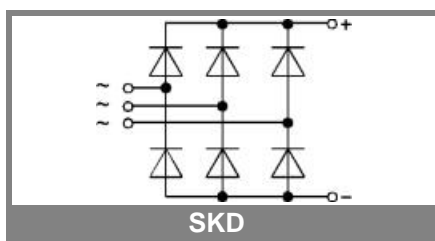
Typical Applications

- Three phase rectifier for power supplies
- Input rectifiers 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
- 3) Recommended V_{VRMS} values
(V_{VRMS max} = V_{RRM} / 1,42)

V _{RSM} , V _{RRM} V	V _{VRMS} V	I _D = 36 A (T _c = 70 °C) Types	C _{max} μF	R _{min} Ω
200	60	SKD 35/02		0,15
400	125	SKD 35/04		0,3
800	250	SKD 35/08		0,7
1200	400	SKD 35/12		1
1600	500	SKD 35/16		1,5

Symbol	Conditions	Values	Units
I _D	T _a = 45 °C, P1/120 natural cooling T _a = 45 °C, chassis ²⁾	28 14,5	A A
I _{DCL}	T _a = 35 °C, P1/120 forced cooling T _a = 45 °C, P1/120 natural cooling T _a = 45 °C, chassis ²⁾	36 28 14,5	A A A
I _{FSM}	T _{vj} = 25 °C, 10 ms T _{vj} = 150 °C, 10 ms	370 320	A A
i ² t	T _{vj} = 25 °C, 8,3 ... 10 ms T _{vj} = 150 °C, 8,3 ... 10 ms	680 500	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	mΩ
I _{RD}	T _{vj} = 25 °C, V _{RD} = V _{RRM} T _{vj} = °C, V _{RD} = V _{RRM} ≥ V	300	μA μA
I _{RD}	T _{vj} = 150 °C, V _{RD} = V _{RRM} T _{vj} = °C, V _{RD} = V _{RRM} ≥ V	5	mA mA
t _{tr}	T _{vj} = 25 °C	10	μs
f _G		2000	Hz
R _{th(j-a)}	isolated ¹⁾ chassis ²⁾	14 3,8	K/W K/W
R _{th(j-c)}	total	1,0	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/s ²
w		23	g
Fu			A
Case		G 11b	



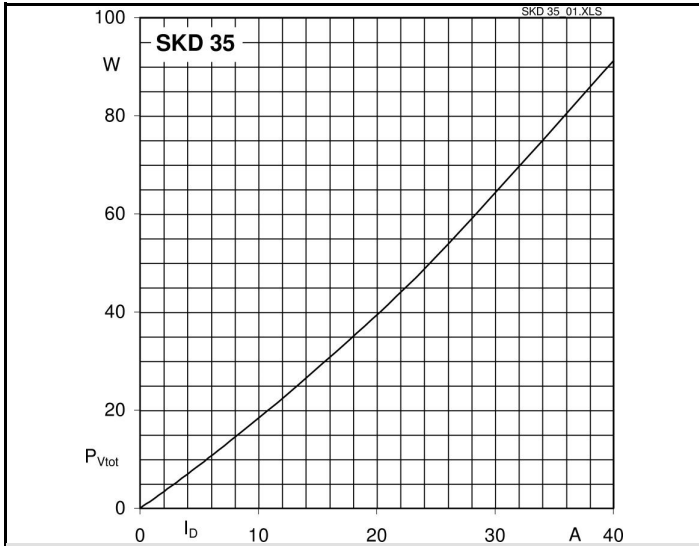


Fig. 3L Power dissipation vs. output current

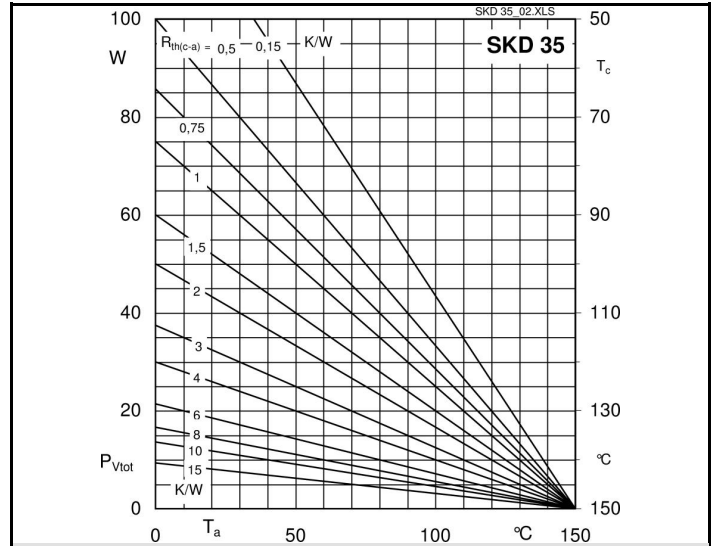


Fig. 3R Power dissipation vs. case temperature

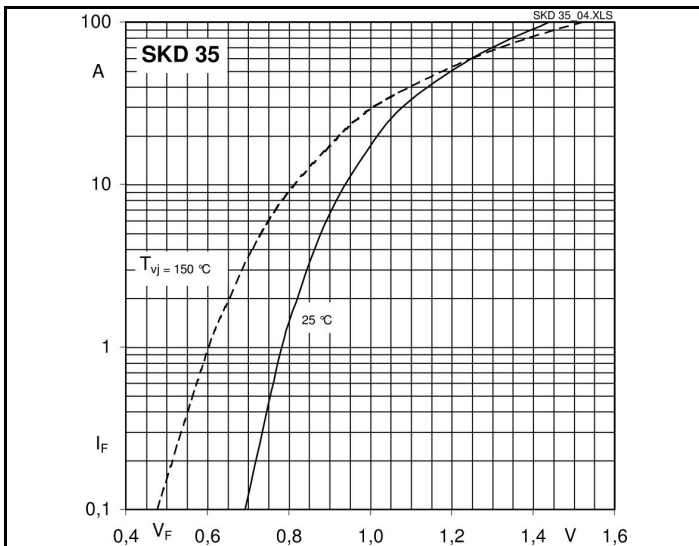


Fig. 9 Forward characteristics of a diode arm (typical)

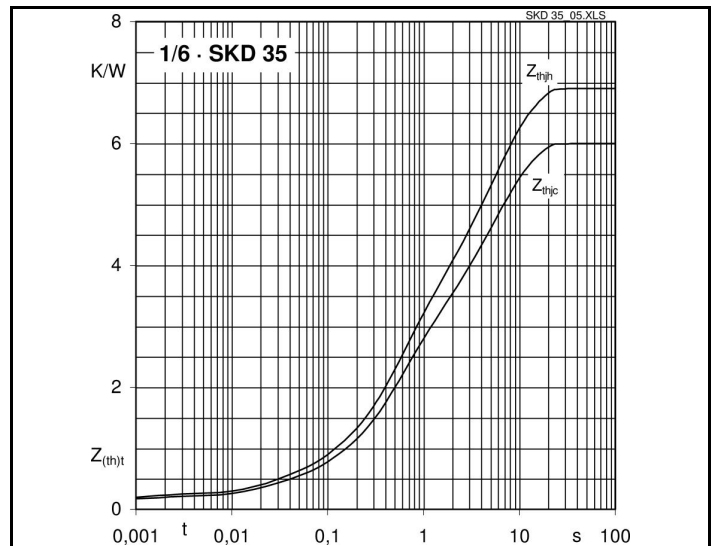
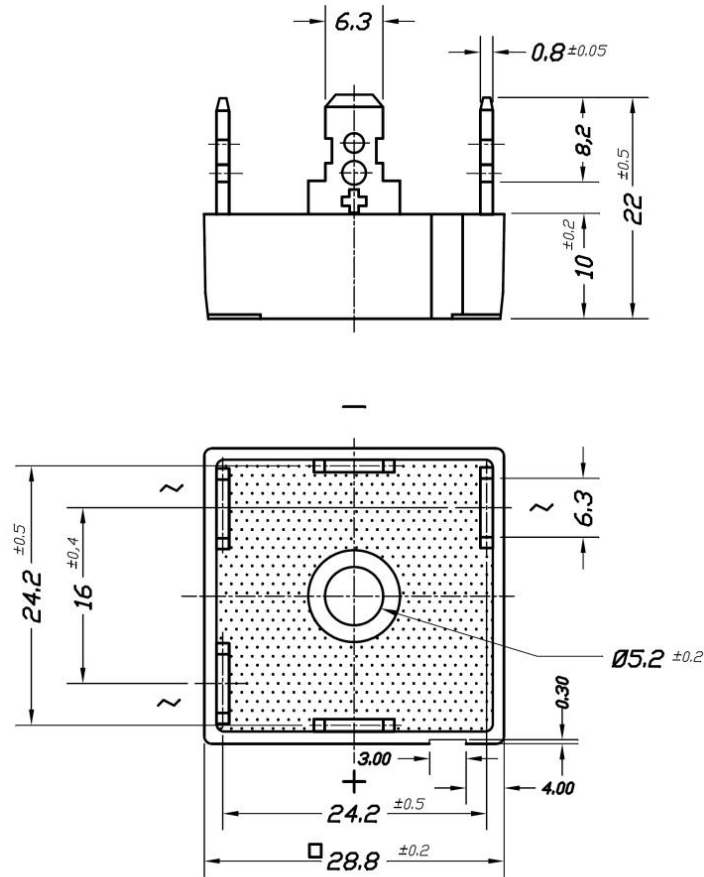


Fig. 12 Transient thermal impedance vs. time



Case G 11b

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