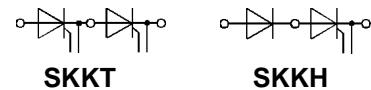


V _{RSM} V V	V _{RRM} V V	(dv/dt) _{cr} V/μs	I _{TRMS} (maximum values for continuous operation)	
			195 A I _{TAV} (sin. 180; T _{case} = 85 °C) 128 A	
900	800	500	SKKT 122/08 D	SKKH 122/08 D
1300	1200	1000	SKKT 122/12 E	SKKH 122/12 E
1500	1400	1000	SKKT 122/14 E	SKKH 122/14 E
1700	1600	1000	SKKT 122/16 E	SKKH 122/16 E
1900	1800	1000	SKKT 122/18 E	SKKH 122/18 E

SEMIPACK® 2 Thyristor / Diode Modules

SKKT 122 SKKH 122



Symbol	Conditions	SKKT 122 SKKH 122	Units
I _{TAV}	sin. 180; T _{case} = 88 °C T _{case} = 80 °C	122 140	A
I _D	B2/B6 T _{amb} = 45 °C; P 3/180 T _{amb} = 35 °C; P 3/180F T _{amb} = 35 °C; P 16/200F	82 / 105 170 / 200 235 / 315	A
I _{RMS}	W1/W3 T _{amb} = 35 °C; P 3/180F T _{amb} = 35 °C; P 16/200F	235 / 3 x 160 295 / 3 x 245	A
I _{TSM}	T _{vj} = 25 °C; 10 ms	3 600	A
i ² t	T _{vj} = 125 °C; 10 ms	3 200	A ² s
	T _{vj} = 25 °C; 8,3 ... 10 ms	64 800	A ² s
	T _{vj} = 125 °C; 8,3 ... 10 ms	51 200	A ² s
t _{gd}	T _{vj} = 25 °C I _G = 1 A dI _G /dt = 1 A/μs	1	μs
t _{gr}	V _D = 0,67 · V _{DRM}	2	μs
(di/dt) _{cr}	T _{vj} = 125 °C	200	A/μs
t _q	T _{vj} = 125 °C	typ. 120	μs
I _H	T _{vj} = 25 °C, typ./max.	100 / 300	mA
I _L	T _{vj} = 25 °C; R _G = 33 Ω; typ./max.	0,2 / 0,5	A
V _T	T _{vj} = 25 °C; I _T = 360 A	1,55	V
V _{T(TO)}	T _{vj} = 125 °C	0,85	V
r _T	T _{vj} = 125 °C	2,0	mΩ
I _{DD} ; I _{RD}	T _{vj} = 125 °C; V _{DRM} ; V _{RRM}	40	mA
V _{GT}	T _{vj} = 25 °C; d.c.	2	V
I _{GT}	T _{vj} = 25 °C; d.c.	150	mA
V _{GD}	T _{vj} = 125 °C; d.c.	0,25	V
I _{GD}	T _{vj} = 125 °C; d.c.	10	mA
R _{thjc}	cont.	0,2 / 0,1	°C/W
R _{thch}	sin. 180 } per thyristor /	0,21 / 0,105	°C/W
T _{vj}	rec. 120 } per module	0,22 / 0,11	°C/W
T _{stg}		0,13 / 0,065	°C/W
		- 40 ... + 125	°C
		- 40 ... + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s/1 min	3600 / 3000	V~
M ₁	to heatsink } 5 (44 lb. in.) ± 15 % ¹⁾	5 (44 lb. in.) ± 15 %	Nm
M ₂	to terminals } SI (US) units	5 · 9,81	Nm
a		250	m/s ²
w	approx.		g
Case	→ page B 1 – 96	SKKT 122: A 21 SKKH 122: A 22	

¹⁾ See the assembly instructions

Features

- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

Typical Applications

- DC motor control (e.g. for machine tools)
- Softstarter
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)

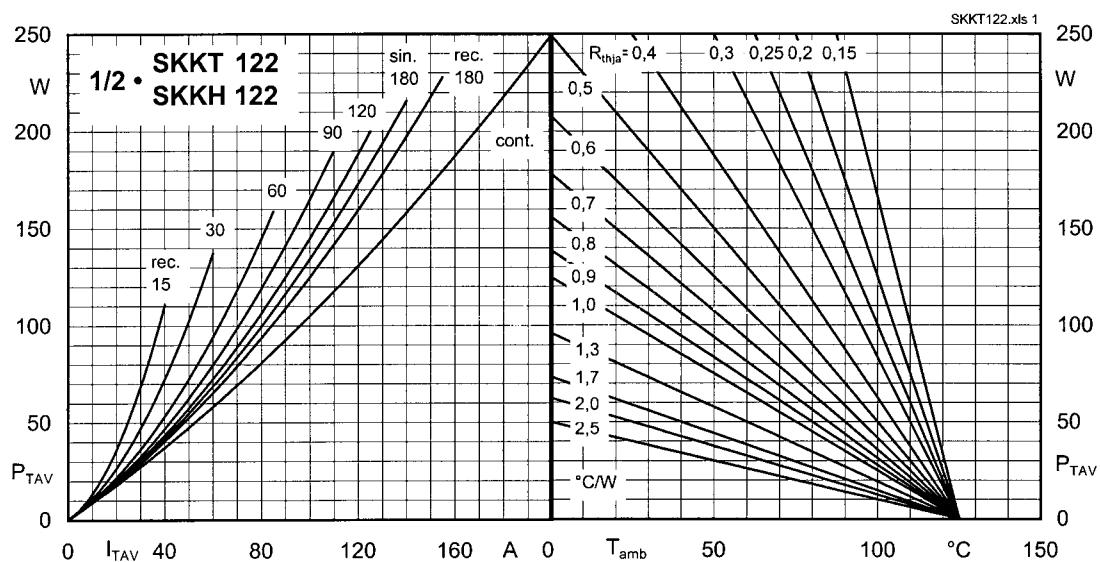


Fig. 1 Power dissipation per thyristor vs. on-state current and ambient temperature

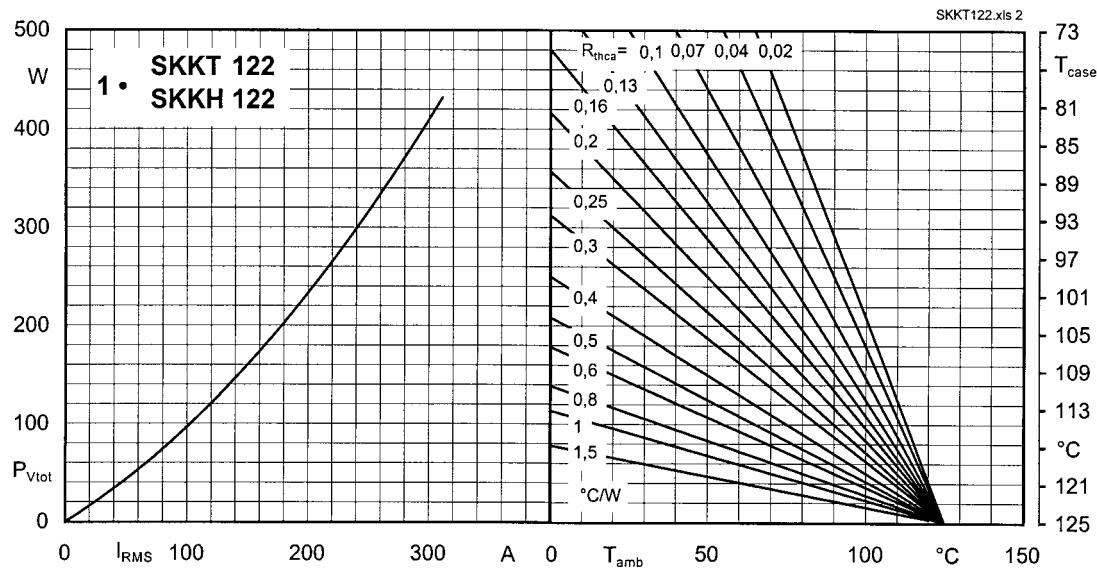


Fig. 2 Power dissipation per module vs. rms current and case temperature

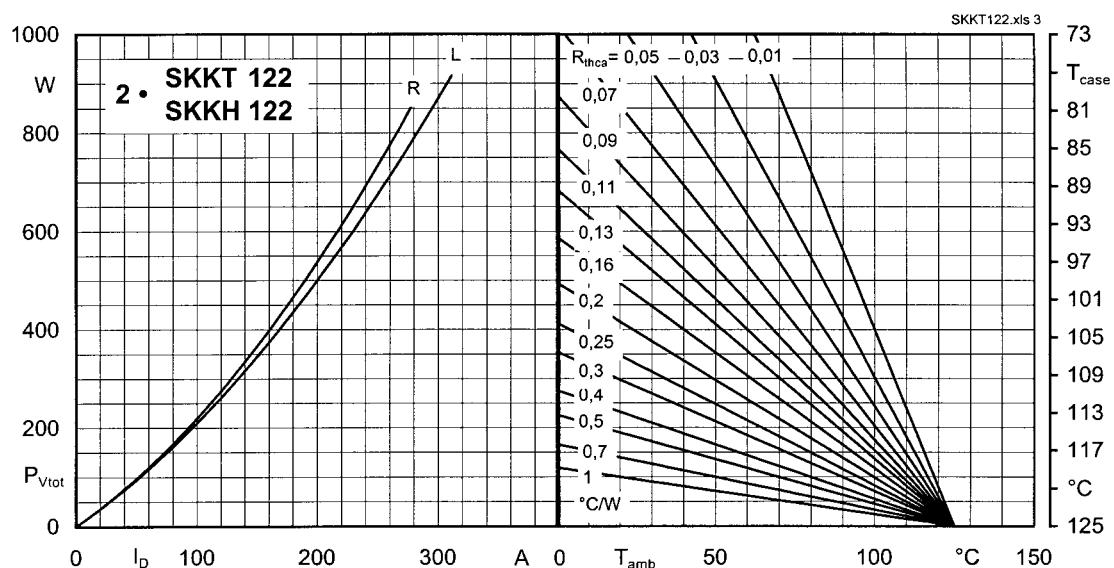


Fig. 3 Power dissipation of two module vs. direct current and case temperature

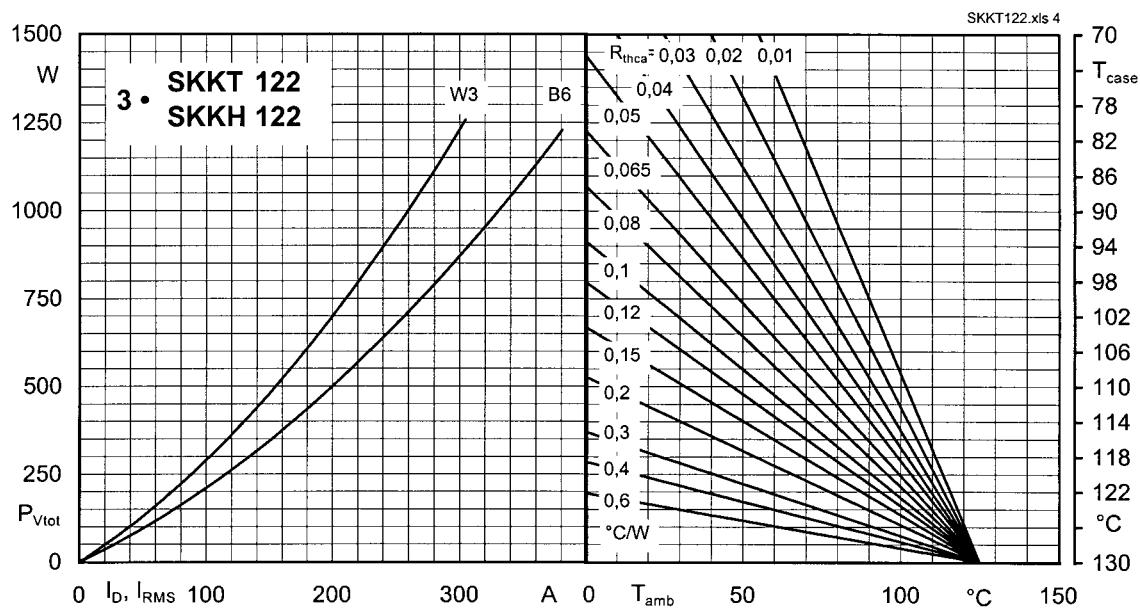


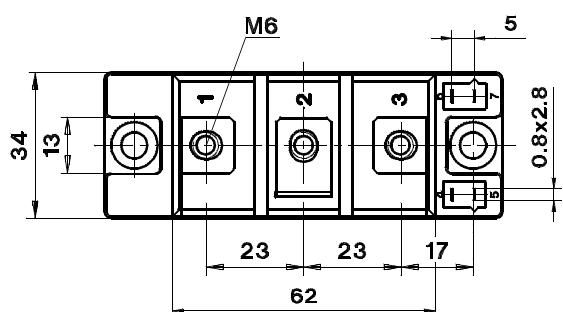
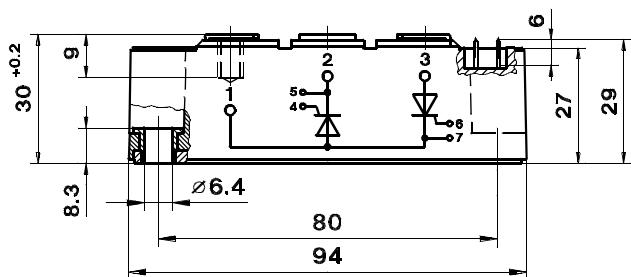
Fig. 4 Power dissipation of three modules vs. direct and rms current and case temperature

SKKT 122, 132, 162

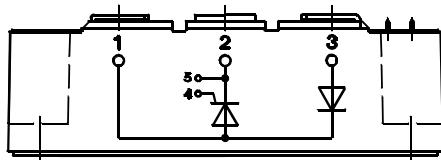
Case A 21

SEMIPACK® 2

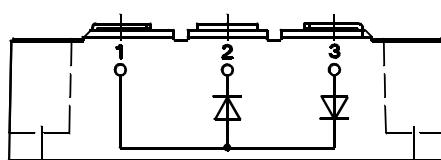
UL recognized, file no. E 63 532

**SKKH 122, 132, 162**

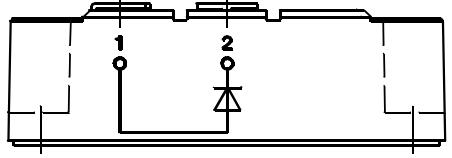
Case A 22

**SKKD 162**

Case A 23

**SKKE 162**

Case A 24



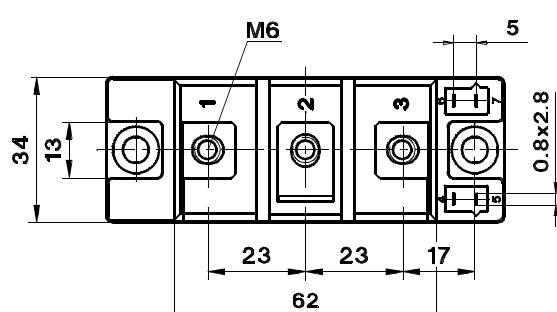
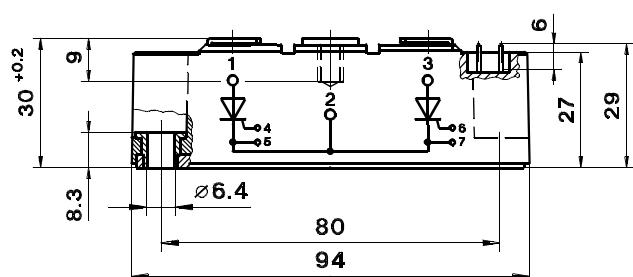
Dimensions in mm

SKMT 132

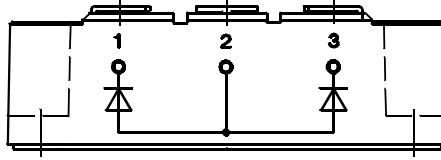
Case A 50

SEMIPACK® 2

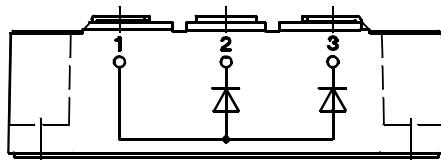
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**SKND 165**

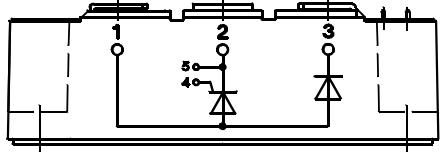
Case A 52

**SKND 162**

Case A 57

**SKNH 132**

Case A 61



Dimensions in mm