

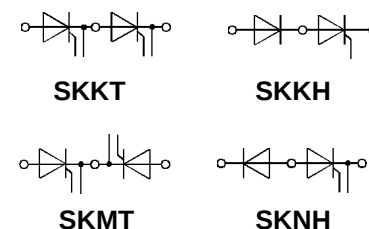
V _{RS}	V _{RRM}	(dv/dt) _{cr}	I _T RMS (maximum value for continuous operation)			
			220 A	250 A	220 A	250 A
V	V	V/μs	I _{TAV} (sin. 180; T _{case} = 80 °C)			
			148 A	168 A	148 A	168 A
900	800	500	SKKT 132/08 D	SKKT 162/08 D	SKKH 132/08 D	SKKH 162/08 D
1300	1200	1000	132/12 E	162/12 E	132/12 E	162/12 E
1500	1400	1000	132/14 E	162/14 E	132/14 E	162/14 E
1700	1600	1000	132/16 E	162/16 E	132/16 E	162/16 E
1900	1800	1000	132/18 E	162/18 E	132/18 E	162/18 E
2100	2000	1000	132/20 E	–	132/20 E	–
2300	2200	1000	132/22 E	–	132/22 E	–

SEMIKRON® 2 Thyristor / Diode Modules

SKKT 132 **SKKH 132**
SKMT 132¹⁾ **SKNH 132¹⁾**
SKKT 162 **SKKH 162**



Symbol	Conditions	SKKT 132 SKKH 132	SKKT 162 SKKH 162	Units
I _{TAV}	sin. 180; (T _{case} = . . .)	130 (87 °C)	160 (83 °C)	A
I _D	B2/B6 T _{amb} = 45 °C; P 3/180 T _{amb} = 35 °C; P 3/180 F	77 / 100	–	A
		170 / 200	190 / 230	A
		250 / 320	290 / 360	A
I _{RMS}	W1/W3 P 3/180 F P 16/200 F	240 / 3 x 163	265 / 3 x 185	A
		305 / 3 x 250	333 / 3 x 312	A
I _{TSM}	T _{vj} = 25 °C; 10 ms	4 700	5 400	A
i ² t	T _{vj} = 125 °C; 10 ms	4 000	5 000	A
	T _{vj} = 25 °C; 8,3 ... 10 ms	110 000	145 000	A ² s
	T _{vj} = 125 °C; 8,3 ... 10 ms	80 000	125 000	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. 50 . . . 150		μs
I _H	T _{vj} = 25 °C; typ./max.	150 / 400		mA
I _L	T _{vj} = 25 °C; R _G = 33 Ω; typ./max.	0,3 / 1		A
V _T	T _{vj} = 25 °C; I _T = 500 A	max. 1,8	max. 1,6	V
V _{T(TO)}	T _{vj} = 125 °C	1	0,85	V
r _T	T _{vj} = 125 °C	1,6	1,5	mΩ
I _{DD} ; I _{RD}	T _{vj} = 125 °C; V _{DRM} ; V _{RRM}	max. 40	max. 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. } sin. 180 } per thyristor / rec. 120 } per module	0,18 / 0,09 0,19 / 0,095 0,21 / 0,105	0,17 / 0,085 0,18 / 0,09 0,20 / 0,10	°C/W °C/W °C/W
R _{thch}		0,10 / 0,05		°C/W
T _{vj} ; T _{stg}		– 40 ... + 125		°C
V _{isol}		3600 / 3000		V~
M ₁	a. c. 50 Hz; r.m.s; 1 s/1 min to heatsink } SI (US) units to terminals }	5 (44 lb. in.) ± 15 % ²⁾		Nm
M ₂		5 (44 lb. in.) ± 15 %		Nm
a		5 · 9,81		m/s ²
w	approx.	250		g
Case	→ page B 1 – 96	SKKT: A 21 SKKH: A 22	SKMT: A 50 SKNH: A 61	



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)
- Temperature control (e.g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- SKNH 162 for DC braking of induction motors, for circuit see page B 1 – 97

¹⁾ SKMT 132, SKNH 132 available on request

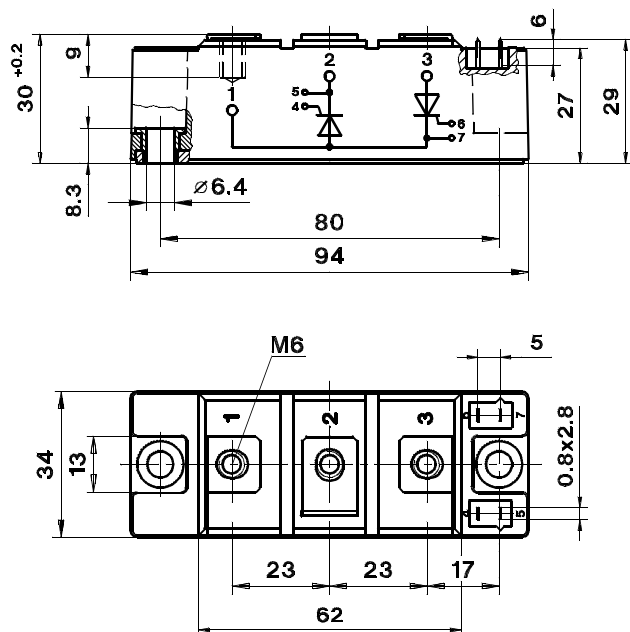
²⁾ See the assembly instructions

SKKT 122, 132, 162

Case A 21

SEMIPACK® 2

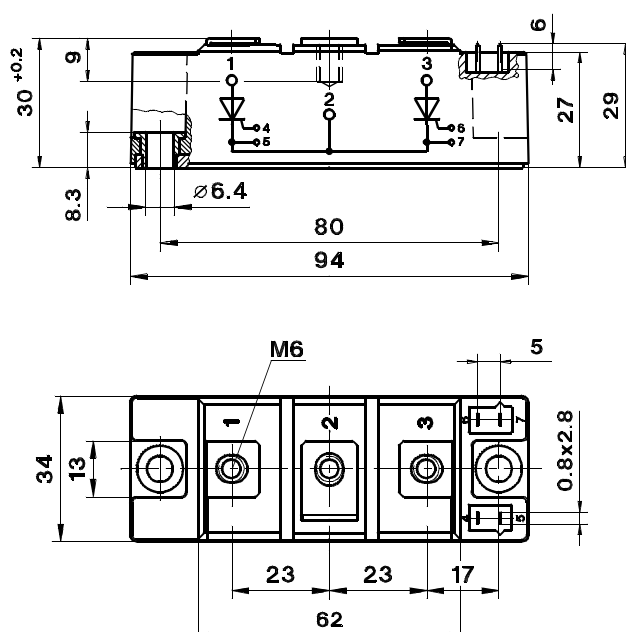
UL recognized, file no. E 63 532

**SKMT 132**

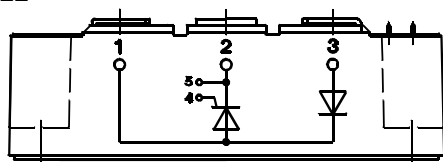
Case A 50

SEMIPACK® 2

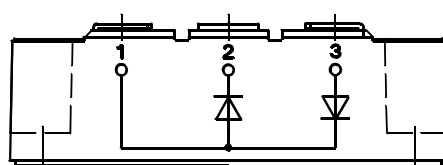
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**SKKH 122, 132, 162**

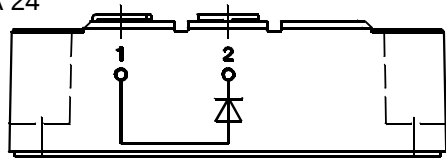
Case A 22

**SKKD 162**

Case A 23

**SKKE 162**

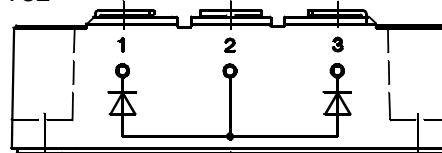
Case A 24



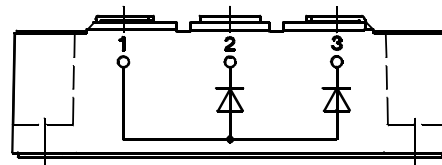
Dimensions in mm

SKND 165

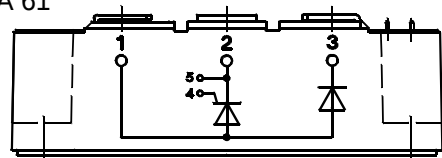
Case A 52

**SKND 162**

Case A 57

**SKNH 132**

Case A 61



Dimensions in mm