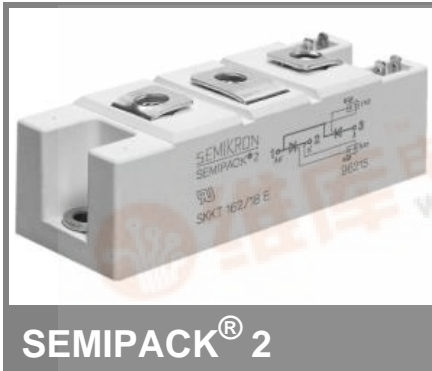


# SKKT 162, SKKH 162



## Thyristor / Diode Modules

SKKT 162  
SKKH 162

### Features

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

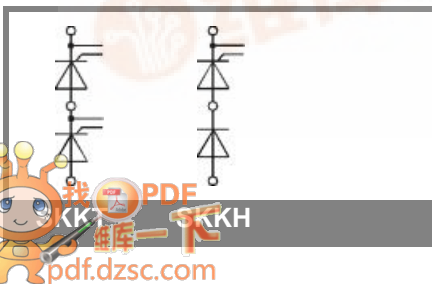
### Typical Applications

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

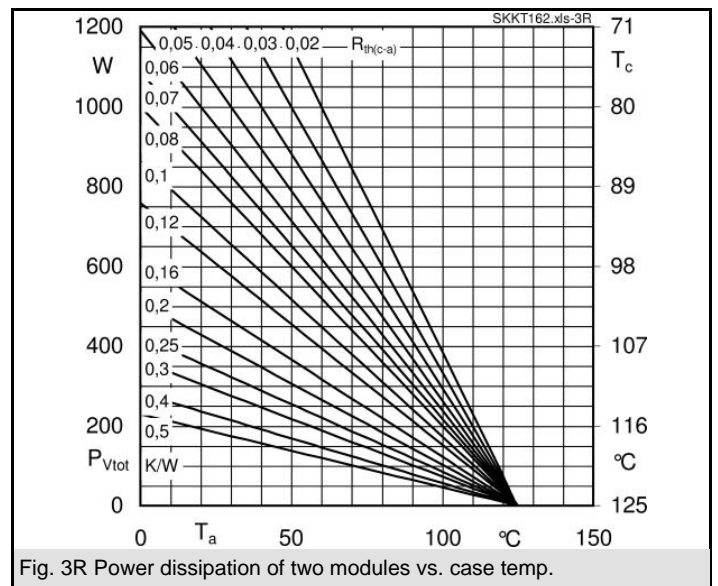
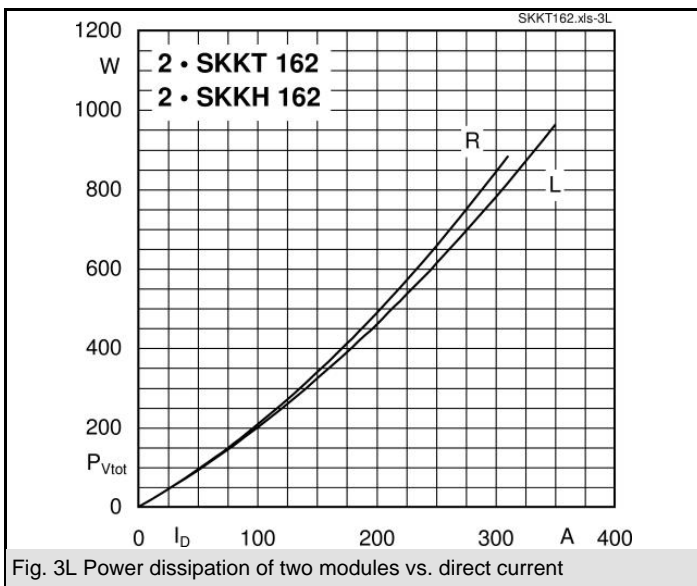
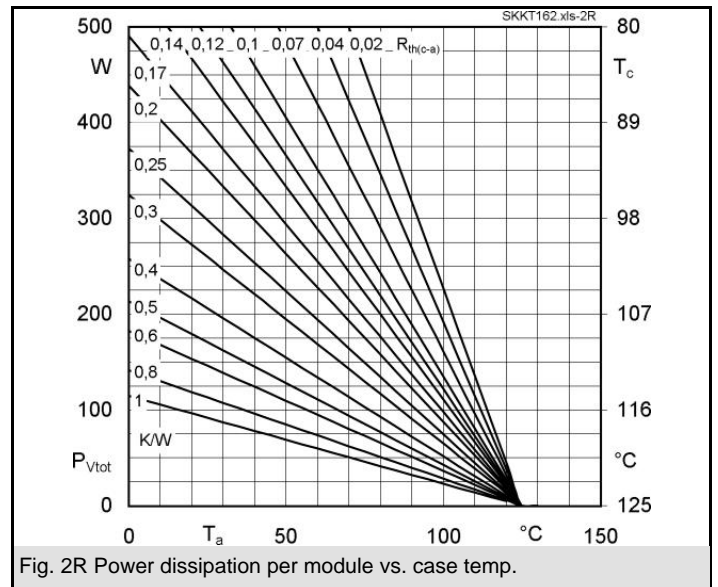
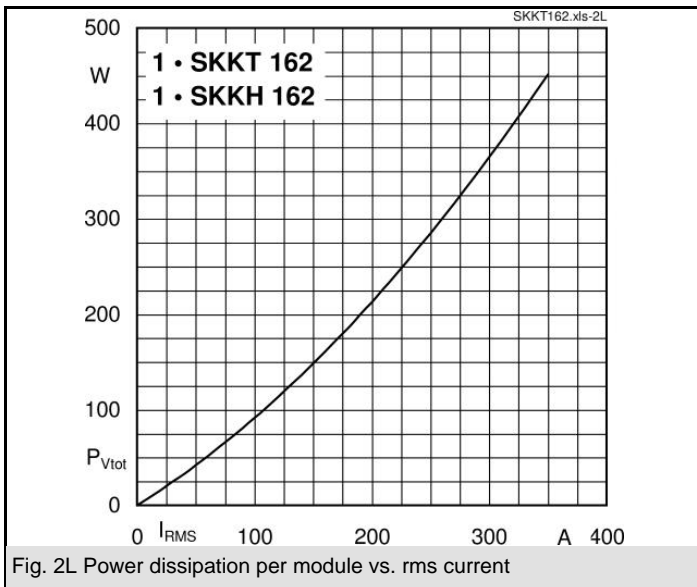
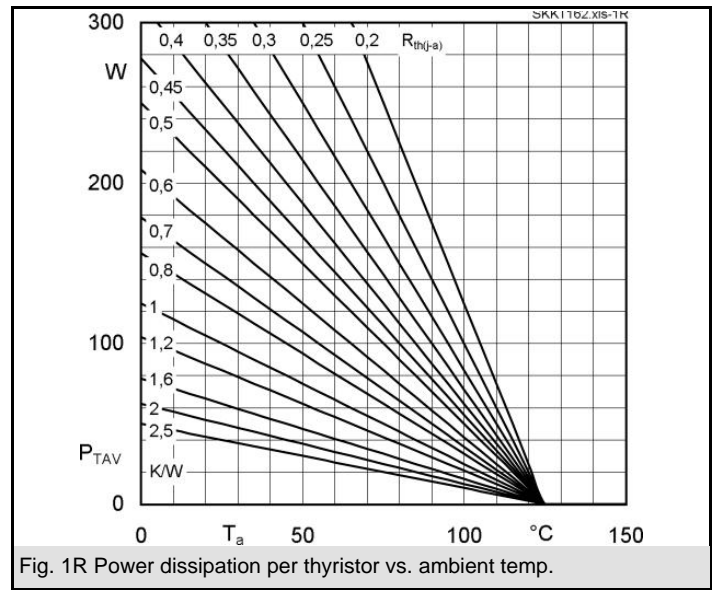
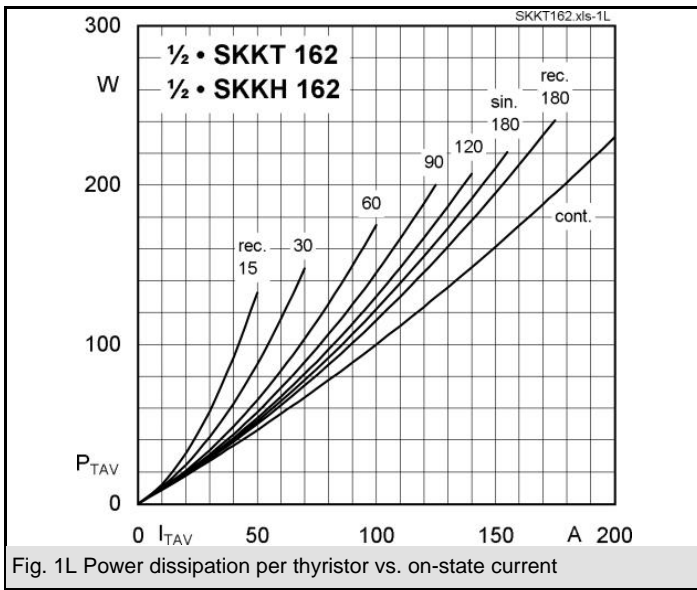
1) See the assembly instructions

V <sub>RSM</sub> V	V <sub>RRM</sub> ; V <sub>DRM</sub> V	I <sub>TRMS</sub> = 250 A (maximum value for continuous operation)	
		I <sub>TAV</sub> = 160 A (sin.180; T <sub>c</sub> = 83 °C)	
900	800	SKKT 162/08E	SKKH 162/08E
1300	1200	SKKT 162/12E	SKKH 162/12E
1500	1400	SKKT 162/14E	SKKH 162/14E
1700	1600	SKKT 162/16E	SKKH 162/16E
1900	1800	SKKT 162/18E	SKKH 162/18E

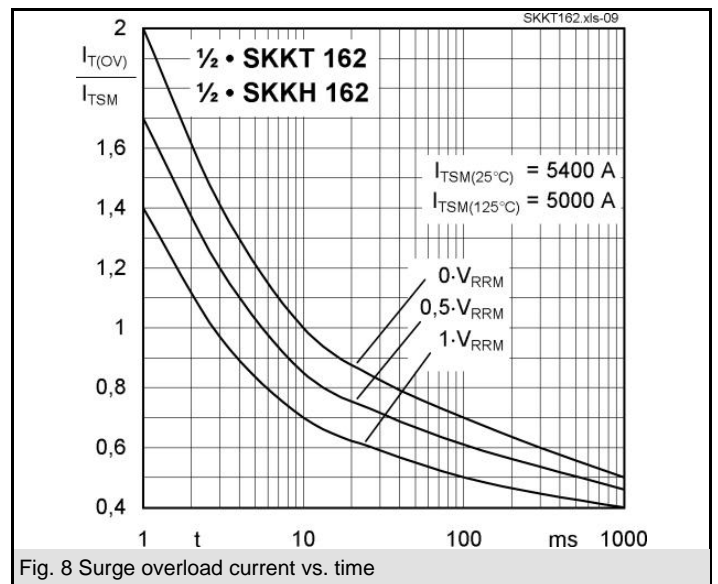
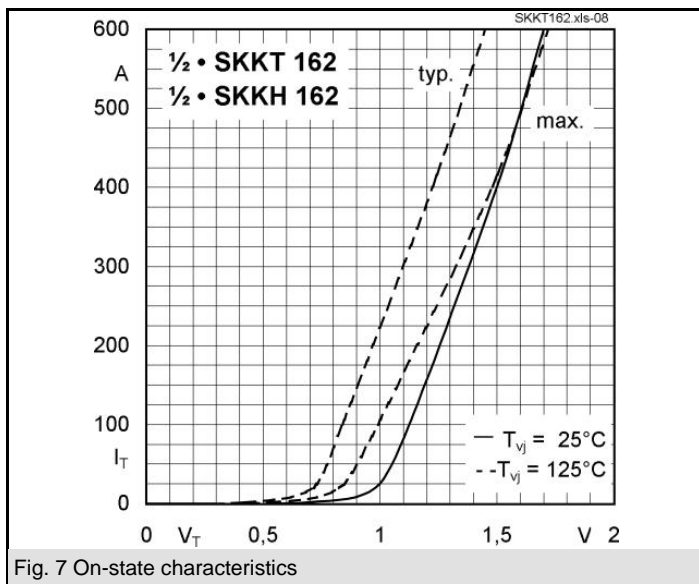
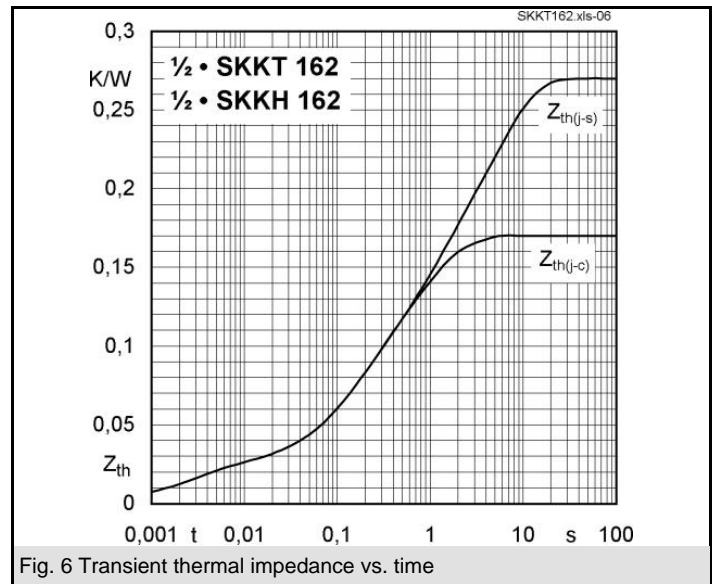
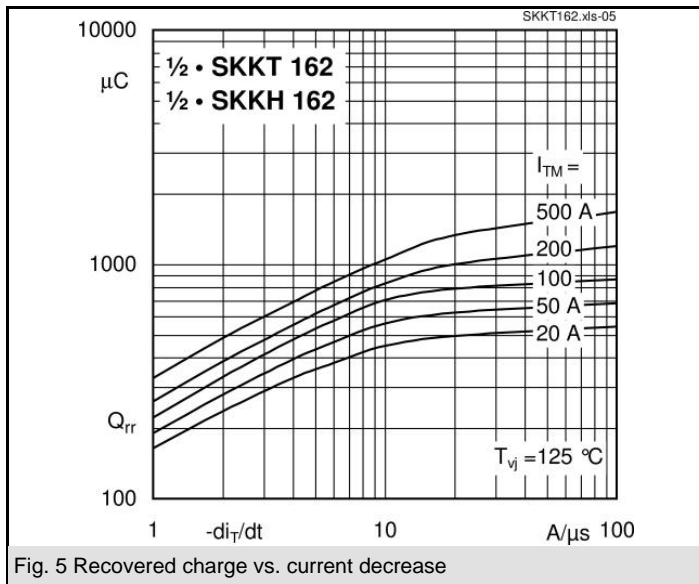
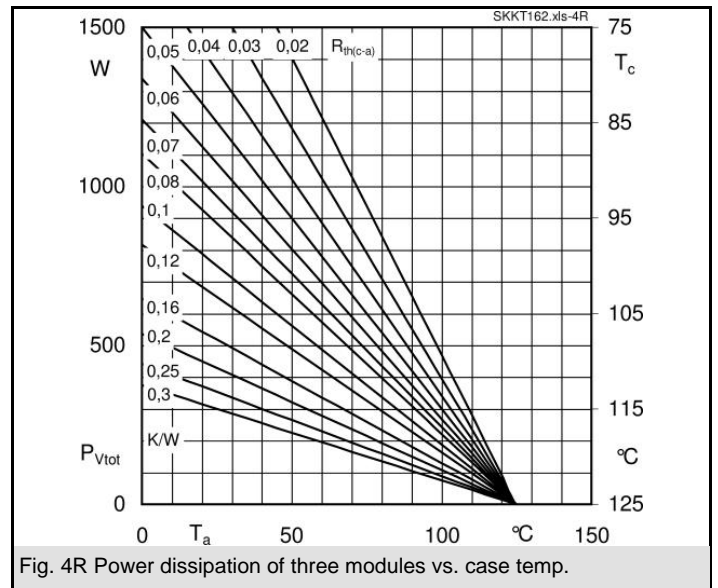
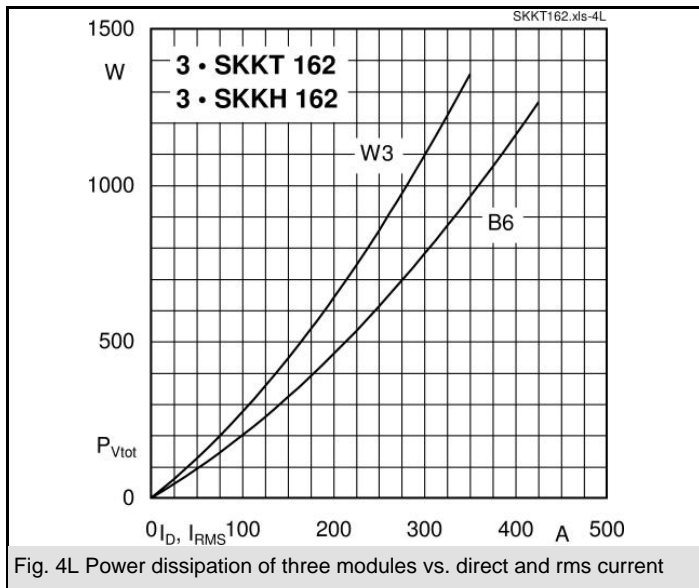
Symbol	Conditions	Values	Units
I <sub>TAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	156 (110)	A
I <sub>D</sub>	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	190 / 230	A
I <sub>RMS</sub>	P3/180F; T <sub>a</sub> = 35 °C; W1 / W3	265 / 3 * 185	A
I <sub>TSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms	5400	A
	T <sub>vj</sub> = 125 °C; 10 ms	5000	A
i <sup>2</sup> t	T <sub>vj</sub> = 25 °C; 8,3 ... 10 ms	145000	A <sup>2</sup> s
	T <sub>vj</sub> = 125 °C; 8,3 ... 10 ms	125000	A <sup>2</sup> s
V <sub>T</sub>	T <sub>vj</sub> = 25 °C; I <sub>T</sub> = 500 A	max. 1,6	V
V <sub>T(TO)</sub>	T <sub>vj</sub> = 125 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	max. 1,5	mΩ
I <sub>DD</sub> ; I <sub>RD</sub>	T <sub>vj</sub> = 125 °C; V <sub>RD</sub> = V <sub>RRM</sub> ; V <sub>DD</sub> = V <sub>DRM</sub>	max. 40	mA
t <sub>gd</sub>	T <sub>vj</sub> = 25 °C; I <sub>G</sub> = 1 A; di <sub>G</sub> /dt = 1 A/μs	1	μs
t <sub>gr</sub>	V <sub>D</sub> = 0,67 * V <sub>DRM</sub>	2	μs
(di/dt) <sub>cr</sub>	T <sub>vj</sub> = 125 °C	max. 200	A/μs
(dv/dt) <sub>cr</sub>	T <sub>vj</sub> = 125 °C	max. 1000	V/μs
t <sub>q</sub>	T <sub>vj</sub> = 125 °C	50 ... 150	μs
I <sub>H</sub>	T <sub>vj</sub> = 25 °C; typ. / max.	150 / 400	mA
I <sub>L</sub>	T <sub>vj</sub> = 25 °C; R <sub>G</sub> = 33 Ω; typ. / max.	300 / 1000	mA
V <sub>GT</sub>	T <sub>vj</sub> = 25 °C; d.c.	min. 2	V
I <sub>GT</sub>	T <sub>vj</sub> = 25 °C; d.c.	min. 150	mA
V <sub>GD</sub>	T <sub>vj</sub> = 125 °C; d.c.	max. 0,25	V
I <sub>GD</sub>	T <sub>vj</sub> = 125 °C; d.c.	max. 10	mA
R <sub>th(j-c)</sub>	cont.; per thyristor / per module	0,17 / 0,085	K/W
R <sub>th(j-c)</sub>	sin. 180; per thyristor / per module	0,18 / 0,09	K/W
R <sub>th(j-c)</sub>	rec. 120; per thyristor / per module	0,2 / 0,1	K/W
R <sub>th(c-s)</sub>	per thyristor / per module	0,1 / 0,05	K/W
T <sub>vj</sub>		- 40 ... + 125	°C
T <sub>stg</sub>		- 40 ... + 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M <sub>s</sub>	to heatsink	5 ± 15 % <sup>1)</sup>	Nm
M <sub>t</sub>	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s <sup>2</sup>
m	approx.	165	g
Case	SKKT SKKH	A 21 A 22	



# SKKT 162, SKKH 162



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