# SKKT 162, SKKH 162



SEMIPACK<sup>®</sup> 2

Thyristor / Diode Modules

#### SKKT 162 SKKH 162

#### Features

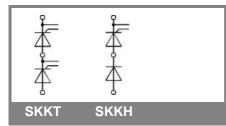
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

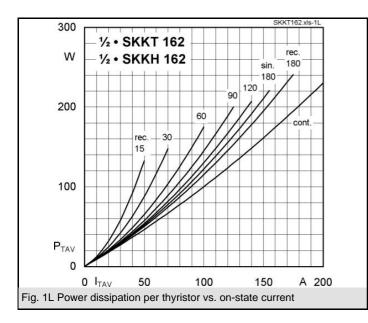
#### **Typical Applications\***

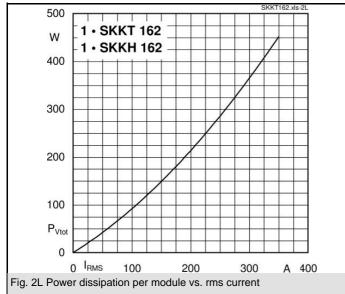
- DC motor control
  (e. g. for machine tools)
- Temperature control
  (e. g. for ovens, chemical
  processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

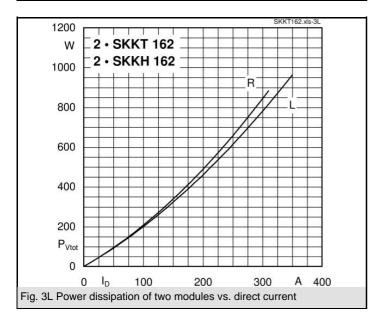
V <sub>RSM</sub>	V <sub>RRM</sub> , V <sub>DRM</sub>	I <sub>TRMS</sub> = 250 A (maximum value for continuous operation)		
V	V	I <sub>TAV</sub> = 160 A (sin.180; T <sub>c</sub> = 83 °C)		
900	800	SKKT 162/08E	SKKH 162/08E	
1300	1200	SKKT 162/12E	SKKH 162/12E	
1500	1400	SKKT 162/14E	SKKH 162/14E	
1700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

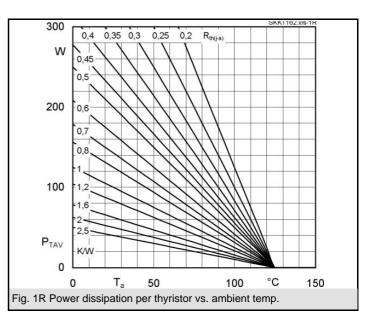
Symbol	Conditions	Values	Units
ITAV	sin. 180; T <sub>c</sub> = 85 (100) °C;	156 (110 )	А
I <sub>D</sub>	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	190 / 230	А
I <sub>RMS</sub>	P3/180F; T <sub>a</sub> = 35 °C; W1 / W3	265 / 3 * 185	А
I <sub>TSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms	5400	Α
	T <sub>vi</sub> = 125 °C; 10 ms	5000	А
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	145000	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	125000	A²s
V <sub>T</sub>	T <sub>vi</sub> = 25 °C; I <sub>T</sub> = 500 A	max. 1,6	V
V <sub>T(TO)</sub>	T <sub>vi</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>	$T_{vj}$ = 125 °C; $V_{RD}$ = $V_{RRM}$ ; $V_{DD}$ = $V_{DRM}$	max. 40	mA
t <sub>gd</sub>	$T_{vj} = 25 \text{ °C}; I_G = 1 \text{ A}; di_G/dt = 1 \text{ A}/\mu\text{s}$	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>vi</sub> = 125 °C	max. 200	A/µs
(dv/dt) <sub>cr</sub>	T <sub>vi</sub> = 125 °C	max. 1000	V/µs
t <sub>q</sub>	T <sub>vi</sub> = 125 °C ,	50 150	μs
I <sub>H</sub>	$T_{vi} = 25 \text{ °C; typ. / max.}$	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>vi</sub> = 25 °C; d.c.	min. 2	V
I <sub>GT</sub>	T <sub>vi</sub> = 25 °C; d.c.	min. 150	mA
V <sub>GD</sub>	T <sub>vi</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>vi</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
Mt	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKT	A 21	
	SKKH	A 22	

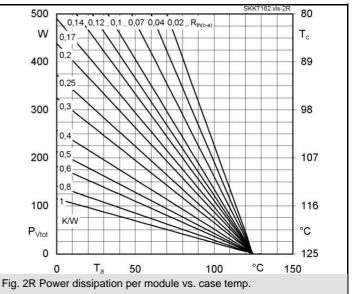


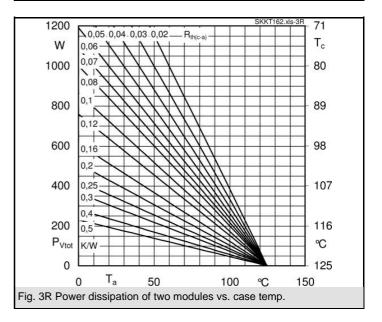




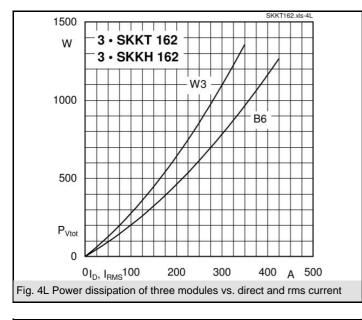


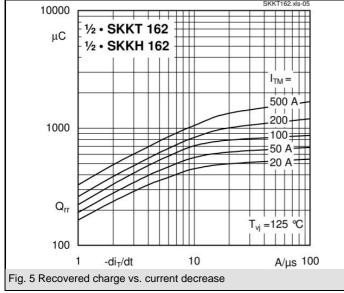


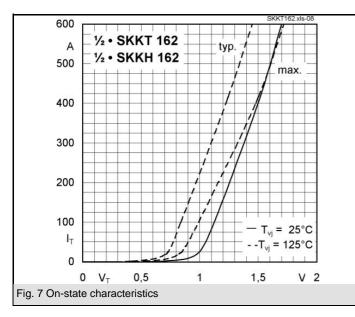


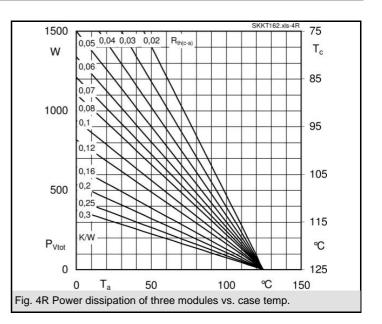


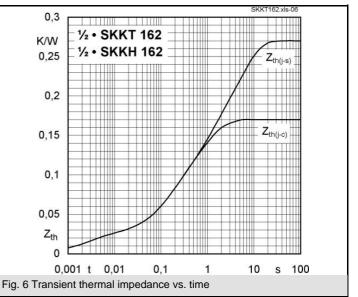
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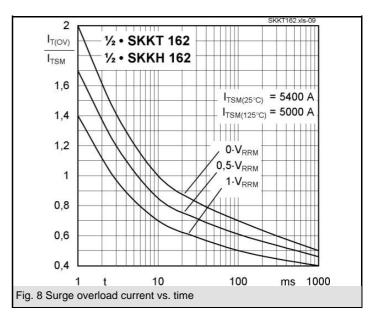


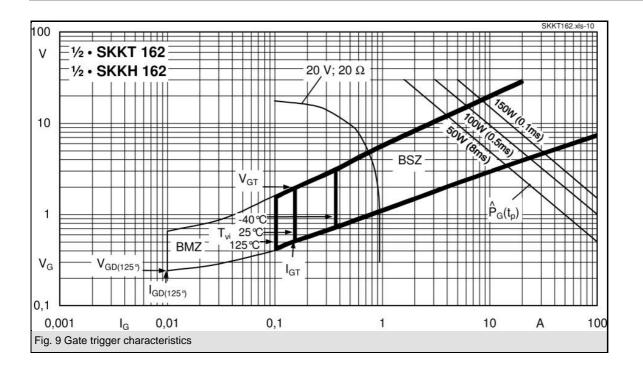


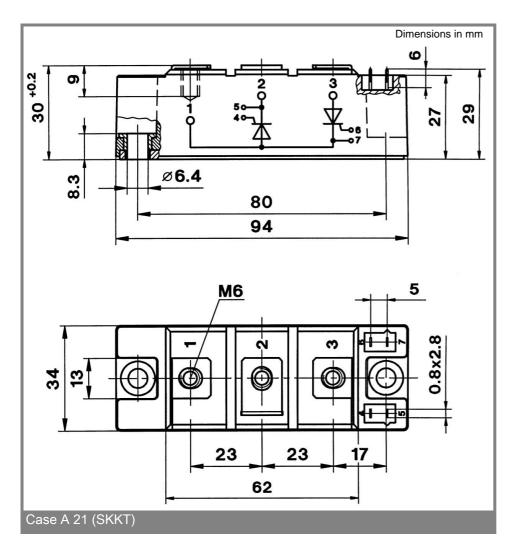


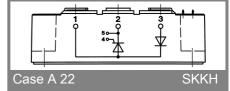












\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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## SKKT 162, SKKH 162

products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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