SKKT 162, SKKH 162



Thyristor / Diode Modules

SKKT 162 SKKH 162

Features

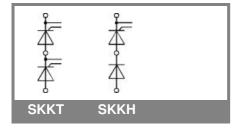
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

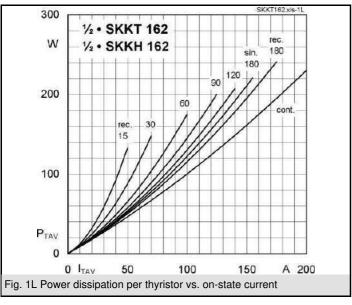
Typical Applications*

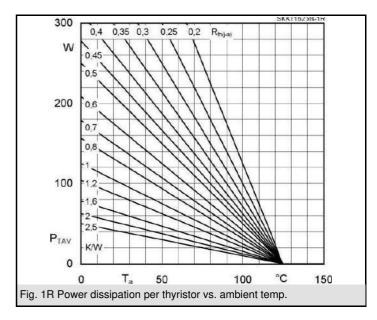
- DC motor control (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

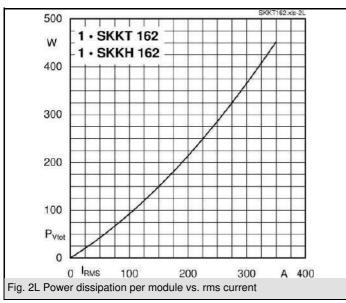
V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 250 A (maximum value for continuous operation)		
V	V	I _{TAV} = 160 A (sin.180; T _c = 83 °C)		
900	800	SKKT 162/08E	SKKH 162/08E	
1300	1200	SKKT 162/12E	SKKH 162/12E	
1500	1400	SKKT 162/14E	SKKH 162/14E	
1700	1600	SKKT 162/16E	SKKH 162/16E	
1900	1800	SKKT 162/18E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

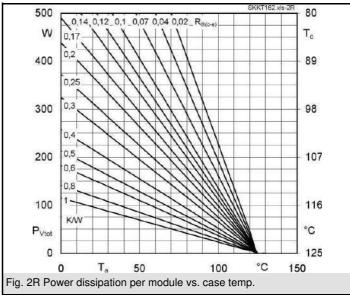
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	156 (110)	A
I _D	P3/180F; T _a = 35 °C; B2 / B6	190 / 230	Α
I _{RMS}	P3/180F; T _a = 35 °C; W1 / W3	265 / 3 * 185	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	5400	Α
	T _{vi} = 125 °C; 10 ms	5000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	145000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	125000	A²s
V_{T}	T _{vi} = 25 °C; I _T = 500 A	max. 1,6	V
$V_{T(TO)}$	T _{vj} = 125 °C	max. 0,85	V
r _T	T _{vj} = 125 °C	max. 1,5	mΩ
I_{DD} ; I_{RD}	T_{vj} = 125 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 40	mA
t _{gd}	$T_{vj} = 25 \text{ °C; } I_G = 1 \text{ A; } di_G/dt = 1 \text{ A/}\mu\text{s}$	1	μs
t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 200	A/µs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 1000	V/µs
t_q	T _{vi} = 125 °C ,	50 150	μs
I _H	T _{vj} = 25 °C; typ. / max.	150 / 400	mA
I_{L}	$T_{vj} = 25 ^{\circ}\text{C}; R_{G} = 33 \Omega; \text{typ. / max.}$	300 / 1000	mA
V _{GT}	T _{vj} = 25 °C; d.c.	min. 2	V
I_{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
V_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 10	mA
R _{th(j-c)}	cont.; per thyristor / per module	0,17 / 0,085	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,18 / 0,09	K/W
R _{th(i-c)}	rec. 120; per thyristor / per module	0,2 / 0,1	K/W
R _{th(c-s)}	per thyristor / per module	0,1 / 0,05	K/W
T _{vi}		- 40 + 125	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M _s	to heatsink	5 ± 15 % ¹⁾	Nm
M_t	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKT	A 21	
	SKKH	A 22	

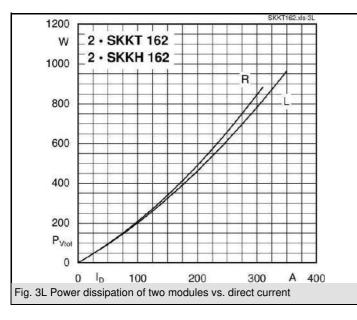


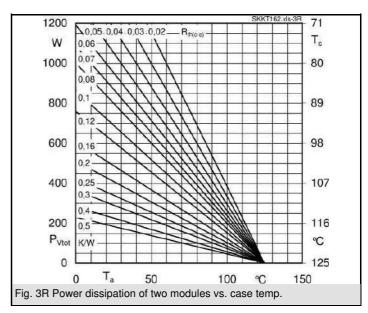




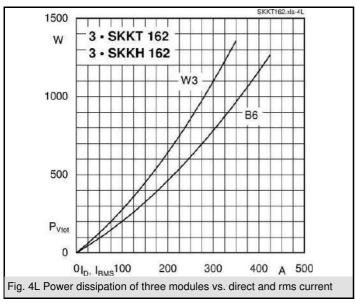


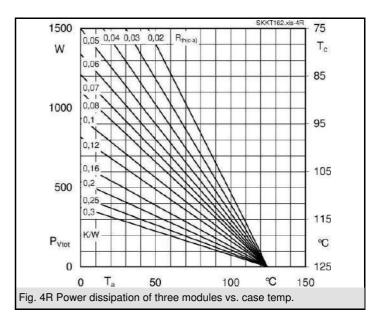


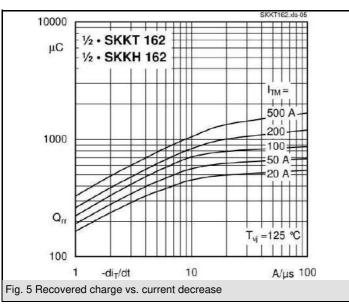


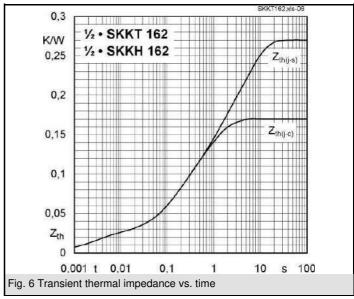


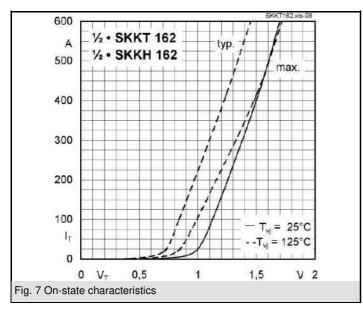
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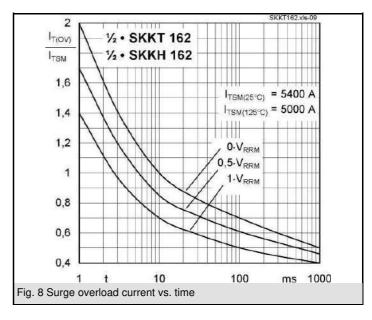


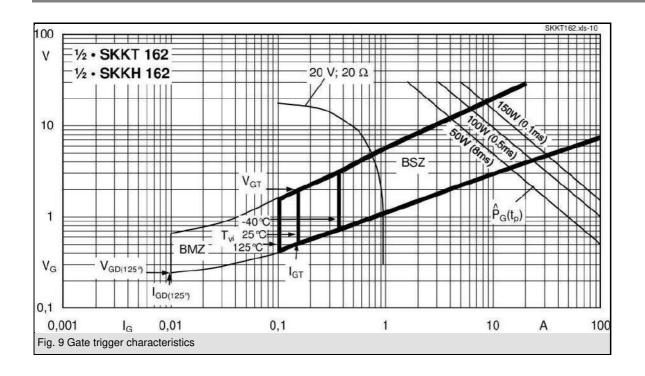


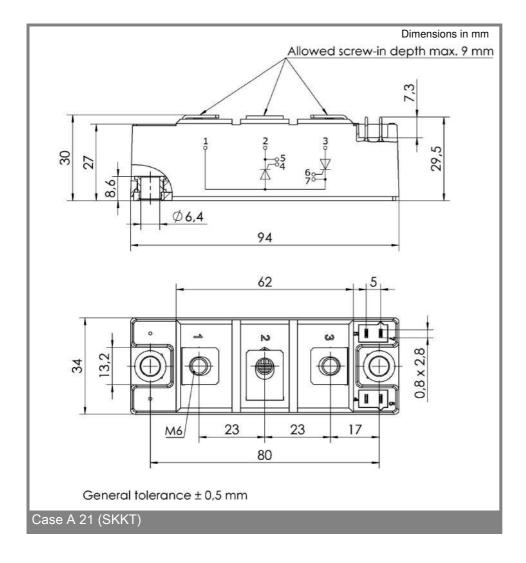


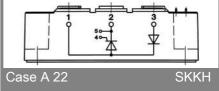












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This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

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