SKKT 250, SKKH 250



SEMIPACK[®] 3

Thyristor / Diode Modules

SKKH 250 SKKT 250

Features

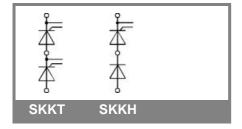
- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate
- UL recognized, file no. E 63 532

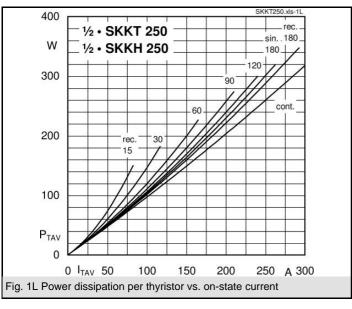
Typical Applications*

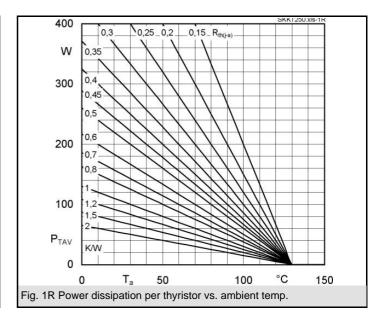
- DC motor control (e. g. for machine tools)
- AC motor starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

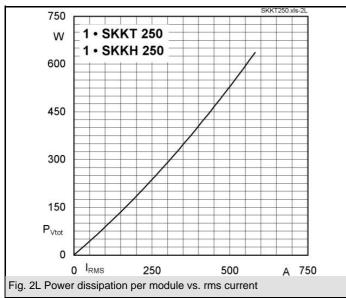
V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 420 A (maximum value for continuous operation)		
V	V	I _{TAV} = 250 A (sin. 180; T _c = 85 °C)		
900	800	SKKT 250/08E		
1300	1200	SKKT 250/12E	SKKH 250/12E	
1700	1600	SKKT 250/16E	SKKH 250/16E	
1900	1800	SKKT 250/18E	SKKH 250/18E	

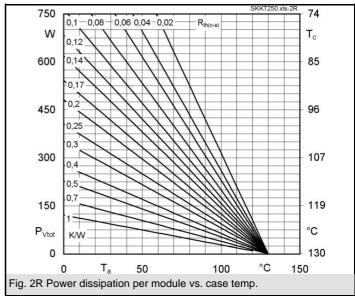
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	250 (178)	Α
I _D	P16/200F; T _a = 35 °C; B2/B6	450 / 585	Α
I _{RMS}	P16/200F; T _a = 35 °C; W1 / W3	566 / 3 * 471	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	9000	Α
	$T_{vj} = 130 ^{\circ}\text{C}; 10 \text{ms}$	8000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	405000	A²s
	T _{vj} = 130 °C; 8,3 10 ms	320000	A²s
V _T	T _{vi} = 25 °C; I _T = 750 A	max. 1,4	V
$V_{T(TO)}$	T _{vi} = 130 °C	max. 0,925	V
r _T	$T_{vj} = 130 ^{\circ}C$	max. 0,45	mΩ
$I_{DD}; I_{RD}$	T_{vj} = 130 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 85	mA
t _{gd}	T_{vj} = 25 °C; I_{G} = 1 A; di_{G}/dt = 1 A/µs	1	μs
t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) _{cr}	T _{vi} = 130 °C	max. 250	A/µs
(dv/dt) _{cr}	T _{vi} = 130 °C	max. 1000	V/µs
t_q	$T_{vj} = 130 ^{\circ}\text{C}$	50 150	μs
I _H	T_{vj} = 25 °C; typ. / max.	150 / 500	mA
I_{L}	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	300 / 2000	mA
V_{GT}	T _{vj} = 25 °C; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 200	mA
V_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	max. 10	mA
R _{th(j-c)}	cont.; per thyristor / per module	0,14 / 0,07	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,15 / 0,075	K/W
R _{th(j-c)}	rec. 120; per thyristor / per module	0,165 / 0,083	K/W
$R_{th(c-s)}$	per thyristor / per module	0,04 / 0,02	K/W
T_{vj}		- 40 + 130	°C
T_{stg}		- 40 + 130	°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 terminals	9 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	600	g
Case	SKKT	A 73b	
	SKKH	A 76b	

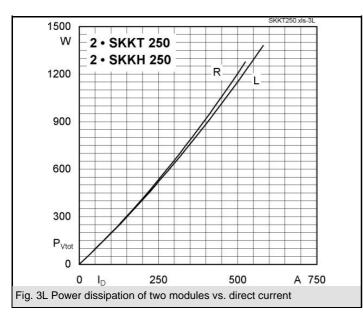


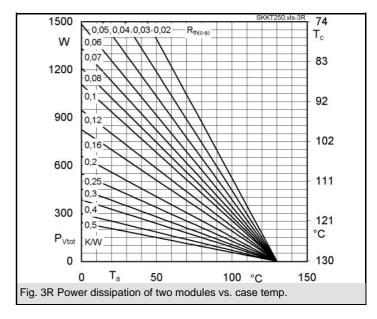




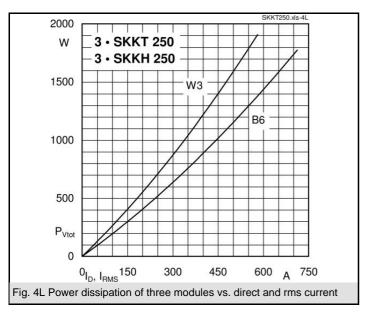


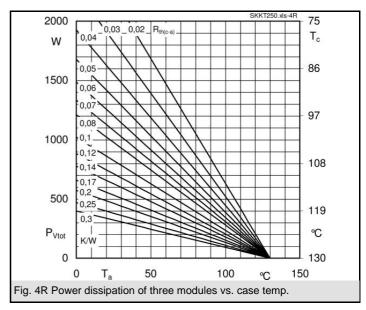


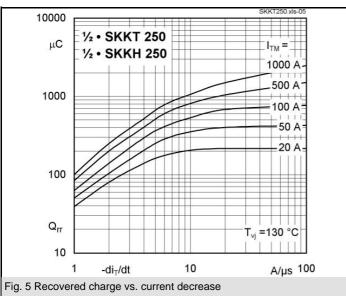


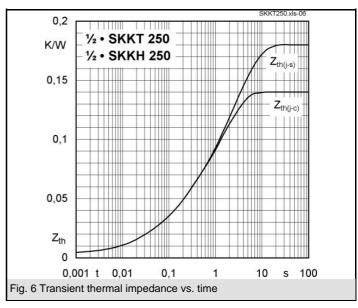


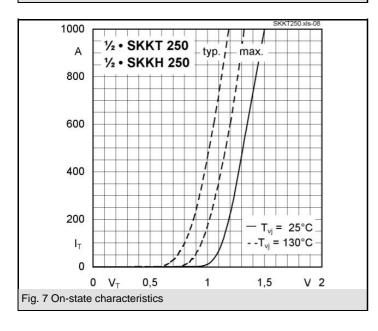
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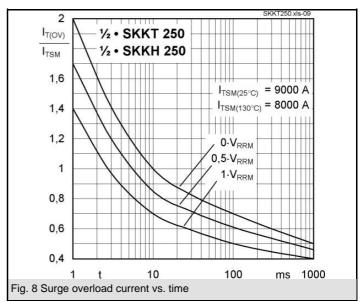


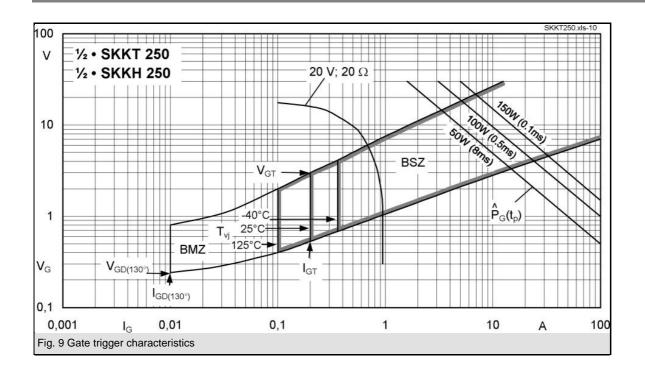


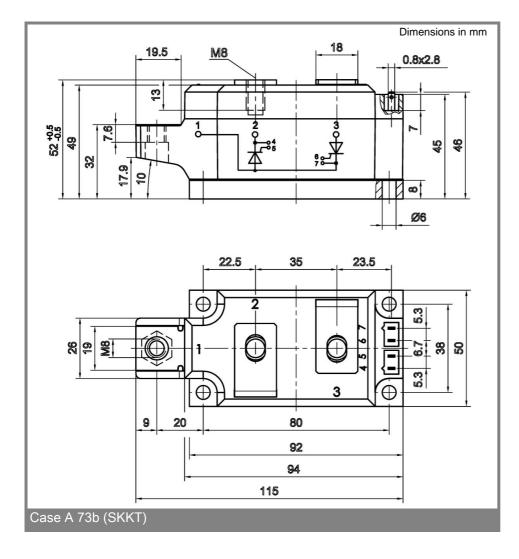


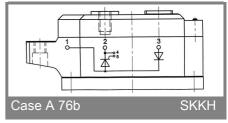












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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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 staff.

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