SKKT 106, SKKT 106B, SKKH 106



SEMIPACK[®] 1

Thyristor / Diode Modules

SKKT	106
SKKT	106B
SKKH	106

Features

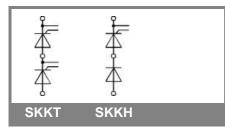
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

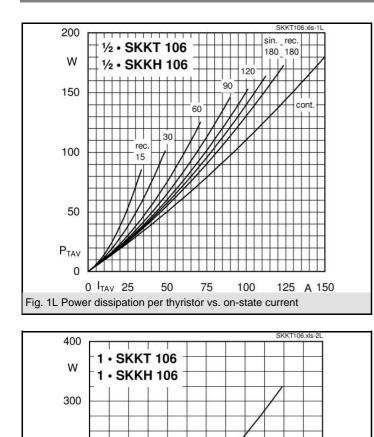
Typical Applications*

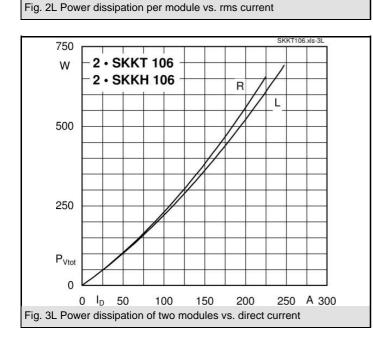
- DC motor control
 (e. g. for machine tools)
- AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 180 A (maximum value for continuous operation)		
V	V	I _{TAV} = 106 A (sin. 180; T _c = 85 °C)		
900	800	SKKT 106/08E	SKKT 106B08E	SKKH 106/08E
1300	1200	SKKT 106/12E	SKKT 106B12E	SKKH 106/12E
1500	1400	SKKT 106/14E	SKKT 106B14E	SKKH 106/14E
1700	1600	SKKT 106/16E	SKKT 106B16E	SKKH 106/16E
1900	1800	SKKT 106/18E	SKKT 106B18E	SKKH 106/18E

Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	106 (78)	А
I _D	P3/180F; T _a = 35 °C; B2 / B6	145 / 180	А
	P16/200F; T _a = 35 °C; B2 / B6	190 /260	А
I _{RMS}	P3/180F; T _a = 35 °C; W1 / W3	200 / 3 * 140	А
I _{TSM}	T _{vi} = 25 °C; 10 ms	2250	А
	T _{vi} = 130 °C; 10 ms	1900	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	25000	A²s
	T _{vj} = 130 °C; 8,3 10 ms	18000	A²s
V _T	T _{vi} = 25 °C; I _T = 300 A	max. 1,65	V
V _{T(TO)}	T _{vi} = 130 °C	max. 0,9	V
r _T	T _{vi} = 130 °C	max. 2	mΩ
I _{DD} ; I _{RD}	$T_{vj} = 130 \text{ °C}; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 20	mA
t _{gd}	T _{vi} = 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. 150	A/µs
(dv/dt) _{cr}	T _{vi} = 130 °C	max. 1000	V/µs
t _q	$T_{vi}^{,j} = 130 \ ^{\circ}C$,	100	μs
I _H	$T_{vi}^{3} = 25 \text{ °C}; \text{ typ. / max.}$	150 / 250	mA
I _L	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	300 / 600	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vi}^{,j} = 25 \text{ °C}; \text{ d.c.}$	min. 150	mA
V _{GD}	T _{vi} = 130 °C; d.c.	max. 0,25	V
I _{GD}	T _{vi} = 130 °C; d.c.	max. 6	mA
R _{th(j-c)}	cont.; per thyristor / per module	0,28 / 0,14	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,3 / 0,15	K/W
R _{th(j-c)}	rec. 120; per thyristor / per module	0,32 / 0,16	K/W
R _{th(c-s)}	per thyristor / per module	0,2 / 0,1	K/W
T _{vi} `´		- 40 + 130	°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
Mt	to terminal	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKT	A 46	
	SKKTB	A 48	
	SKKH	A 47	





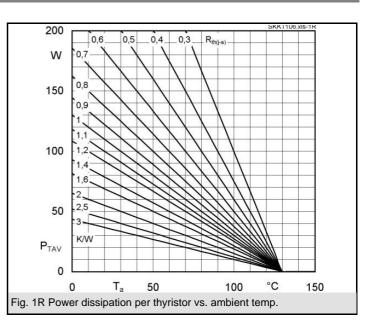


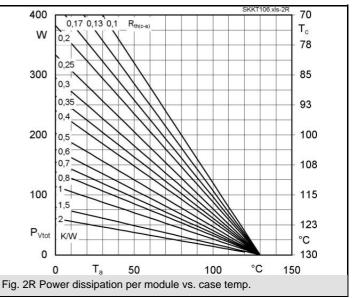
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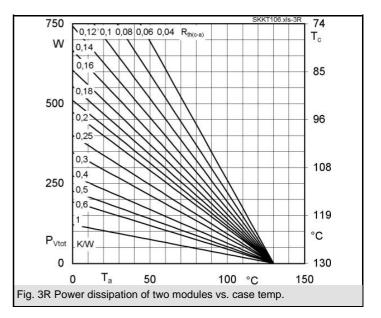
150

200

250 A 300







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200

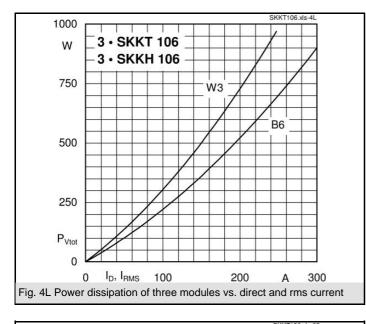
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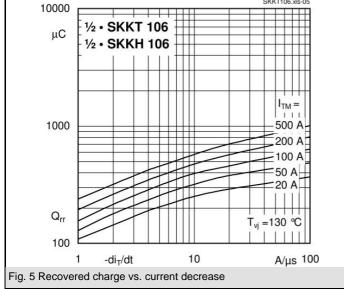
 $\mathsf{P}_{\mathsf{Vtot}}$

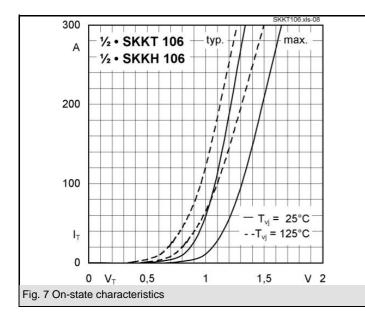
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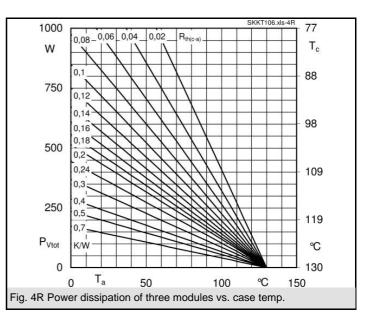
0 I_{RMS} 50

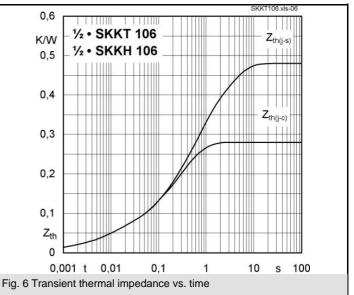
SKKT 106, SKKT 106B, SKKH 106

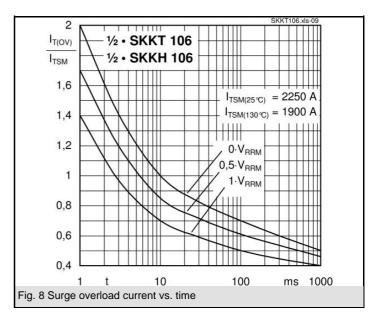




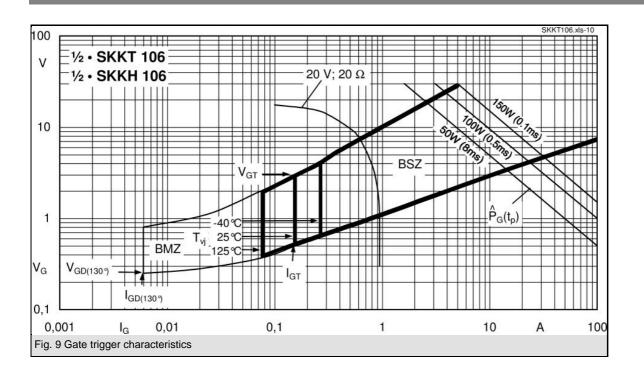


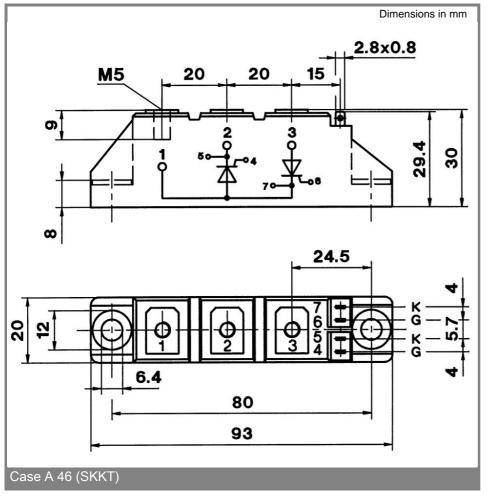


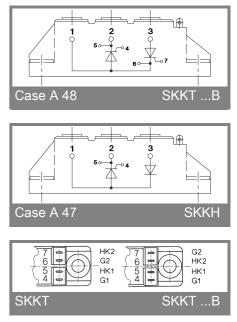




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