# SKKT 106, SKKT 106B, SKKH 106



## SEMIPACK® 1

### Thyristor / Diode Modules

SKKT 106 SKKT 106B SKKH 106

#### **Features**

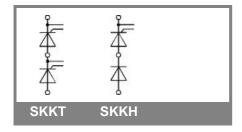
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

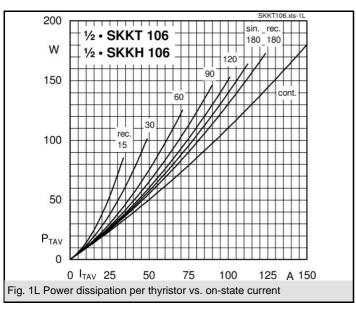
### **Typical Applications\***

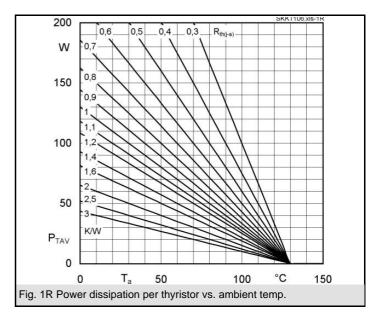
- DC motor control (e. g. for machine tools)
- · AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

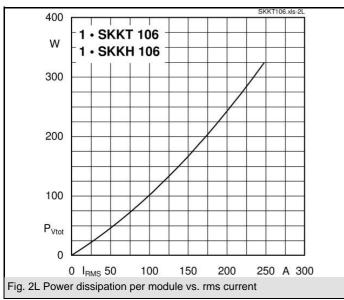
V <sub>RSM</sub>	V <sub>RRM</sub> , V <sub>DRM</sub>	I <sub>TRMS</sub> = 180 A (maximum value for continuous operation)		
V	V	I <sub>TAV</sub> = 106 A (sin. 180; T <sub>c</sub> = 85 °C)		
900	800	SKKT 106/08E	SKKT 106B08E	SKKH 106/08E
1300	1200	SKKT 106/12E	SKKT 106B12E	SKKH 106/12E
1500	1400	SKKT 106/14E	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

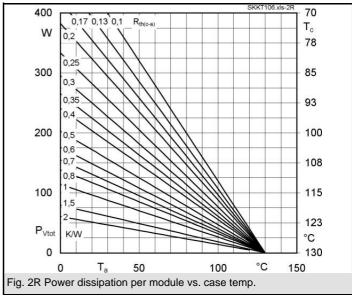
Symbol	Conditions	Values	Units
I <sub>TAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C;	106 (78 )	Α
I <sub>D</sub>	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	145 / 180	Α
	P16/200F; T <sub>a</sub> = 35 °C; B2 / B6	190 /260	Α
I <sub>RMS</sub>	P3/180F; T <sub>a</sub> = 35 °C; W1 / W3	200 / 3 * 140	Α
I <sub>TSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	2250	Α
	T <sub>vi</sub> = 130 °C; 10 ms	1900	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	25000	A²s
	T <sub>vj</sub> = 130 °C; 8,3 10 ms	18000	A²s
V <sub>T</sub>	T <sub>vi</sub> = 25 °C; I <sub>T</sub> = 300 A	max. 1,65	V
$V_{T(TO)}$	T <sub>vi</sub> = 130 °C	max. 0,9	V
r <sub>T</sub>	T <sub>vj</sub> = 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 <sub>gd</sub>	$T_{vj} = 25 \text{ °C; } I_G = 1 \text{ A; } di_G/dt = 1 \text{ A/µs}$	1	μs
t <sub>gr</sub>	$V_{D} = 0.67 * V_{DRM}$	2	μs
(di/dt) <sub>cr</sub>	T <sub>vi</sub> = 130 °C	max. 150	A/µs
(dv/dt) <sub>cr</sub>	T <sub>vi</sub> = 130 °C	max. 1000	V/µs
t <sub>q</sub>	$T_{vi} = 130  ^{\circ}\text{C}$	100	μs
I <sub>H</sub>	$T_{vj} = 25 ^{\circ}\text{C}$ ; typ. / max.	150 / 250	mA
$I_L$	$T_{vj}$ = 25 °C; $R_G$ = 33 $\Omega$ ; typ. / max.	300 / 600	mA
V <sub>GT</sub>	T <sub>vi</sub> = 25 °C; d.c.	min. 3	V
$I_{GT}$	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	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. 6	mA
R <sub>th(j-c)</sub>	cont.; per thyristor / per module	0,28 / 0,14	K/W
R <sub>th(j-c)</sub>	sin. 180; per thyristor / per module	0,3 / 0,15	K/W
R <sub>th(j-c)</sub>	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
$T_{vj}$		- 40 + 130	°C
$T_{stg}$		- 40 <b>+</b> 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
$M_s$	to heatsink	5 ± 15 % <sup>1)</sup>	Nm
$M_t$	to terminal	3 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKT	A 46	
	SKKTB	A 48	
	SKKH	A 47	

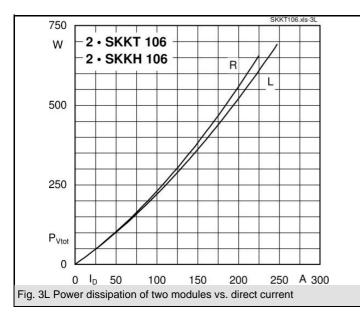


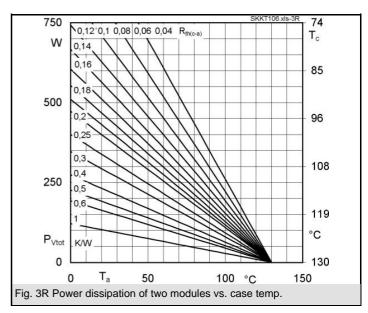




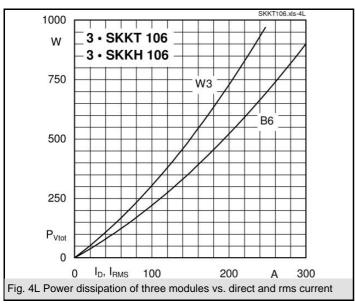


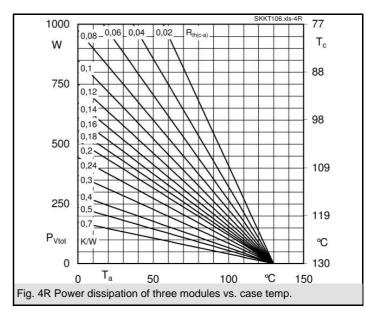


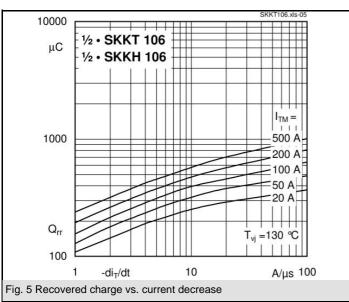


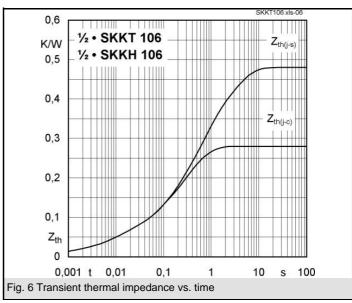


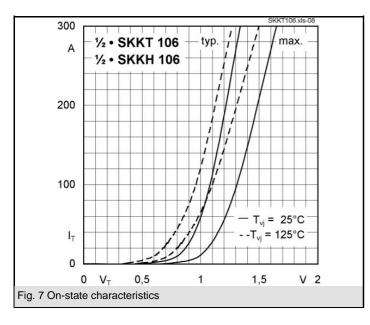
## SKKT 106, SKKT 106B, SKKH 106

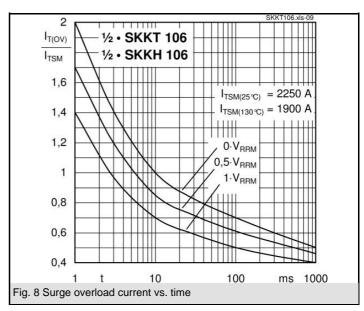


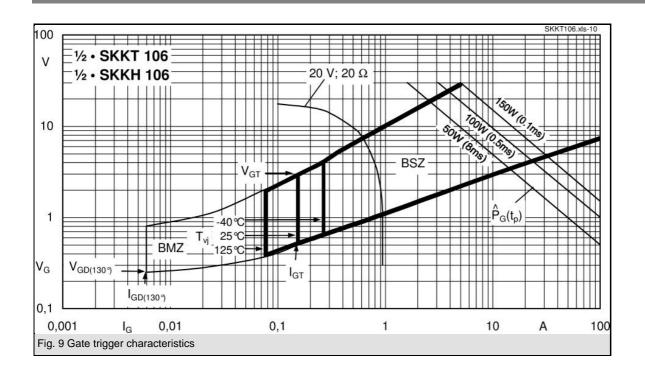


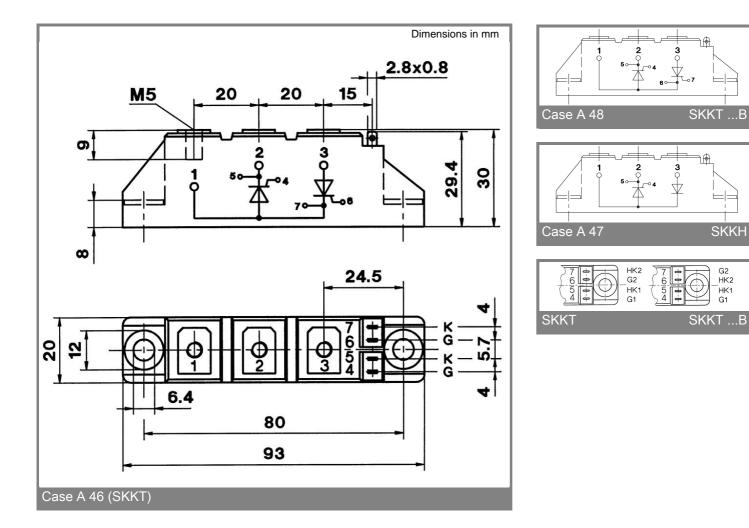












G2 HK2

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