## **SKKT 57, SKKH 57, SKKT 57B**



V <sub>RSM</sub>	$V_{RRM}, V_{DRM}$	I <sub>TRMS</sub> = 95 A (maximum value for continuous operation)			
V	V	I <sub>TAV</sub> = 55 A (sin. 180; T <sub>c</sub> = 80 °C)			
900	800	SKKT 57/08E	SKKT 57B08E	SKKH 57/08E	
1300	1200	SKKT 57/12E	SKKT 57B12E	SKKH 57/12E	
1500	1400	SKKT 57/14E	SKKT 57B14E	SKKH 57/14E	
1700	1600	SKKT 57/16E	SKKT 57B16E	SKKH 57/16E	
1900	1800	SKKT 57/18E	SKKT 57B18E	SKKH 57/18E	

# SEMIPACK<sup>®</sup> 1

### Thyristor / Diode Modules

SKKT 57 SKKH 57 SKKT 57B

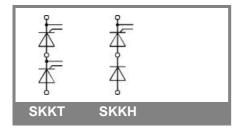
#### **Features**

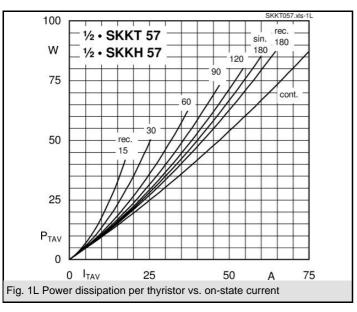
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered jounts for high reliability
- UL recognized, file no. E 63 532

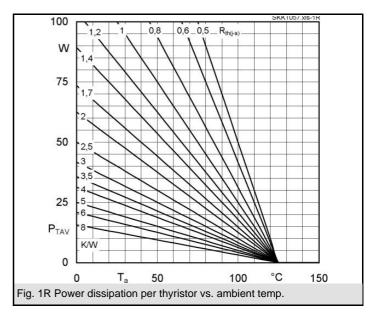
### **Typical Applications\***

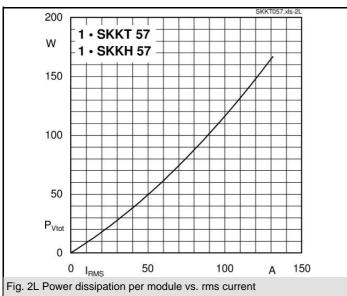
- DC motor control (e. g. for machine tools)
- · AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

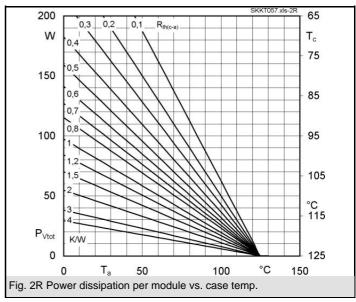
Symbol	Conditions	Values	Units
I <sub>TAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C;	50 (35 )	Α
I <sub>D</sub>	P3/180; T <sub>a</sub> = 45 °C; B2 / B6	57 / 68	Α
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	100 /130	Α
$I_{RMS}$	P3/180F; T <sub>a</sub> = 35 °C; W1 / W3	130 / 3 x 100	Α
I <sub>TSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1500	Α
	$T_{vi} = 125 ^{\circ}\text{C}; 10 \text{ms}$	1250	Α
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	11000	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	8000	A²s
V <sub>T</sub>	T <sub>vi</sub> = 25 °C; I <sub>T</sub> = 200 A	max. 1,65	V
$V_{T(TO)}$	T <sub>vi</sub> = 125 °C	max. 0,9	V
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	max. 3,5	mΩ
$I_{DD}$ ; $I_{RD}$	$T_{vj}$ = 125 °C; $V_{RD} = V_{RRM}$ ; $V_{DD} = V_{DRM}$	max. 15	mA
t <sub>gd</sub>	$T_{vj}$ = 25 °C; $I_G$ = 1 A; $di_G/dt$ = 1 A/ $\mu$ s	1	μs
t <sub>gr</sub>	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) <sub>cr</sub>	T <sub>vi</sub> = 125 °C	max. 150	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 ,	80	μs
I <sub>H</sub>	T <sub>vj</sub> = 25 °C; typ. / max.	150 / 250	mA
$I_L$	$T_{vj} = 25 {}^{\circ}\text{C};  R_{G} = 33 \Omega;  \text{typ.}  /  \text{max.}$	300 / 600	mA
V <sub>GT</sub>	T <sub>vi</sub> = 25 °C; d.c.	min. 3	V
I <sub>GT</sub>	$T_{vi} = 25 ^{\circ}\text{C}; \text{d.c.}$	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. 6	mA
R <sub>th(j-c)</sub>	cont.; per thyristor / per module	0,57 / 0,29	K/W
R <sub>th(j-c)</sub>	sin. 180; per thyristor / per module	0,6 / 0,3	K/W
R <sub>th(j-c)</sub>	rec. 120; per thyristor / per module	0,64 / 0,32	K/W
$R_{th(c-s)}$	per thyristor / per module	0,2 / 0,1	K/W
$T_{vi}$		- 40 <b>+</b> 125	°C
T <sub>stg</sub>		- 40 <b>+</b> 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
$M_t$	to terminals	3 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKT	A 46	
	SKKTB	A 48	
	SKKH	A 47	

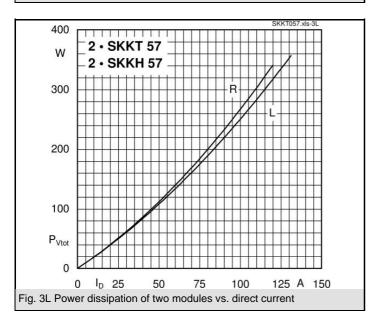


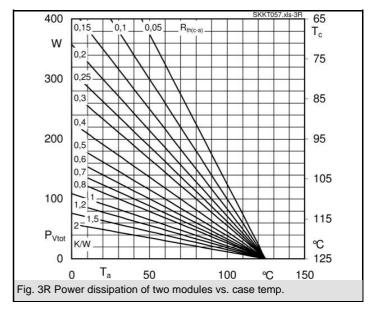




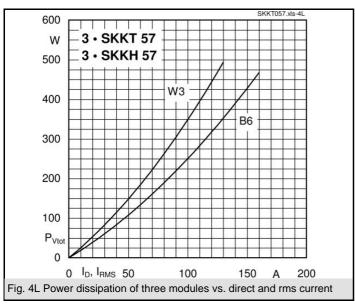


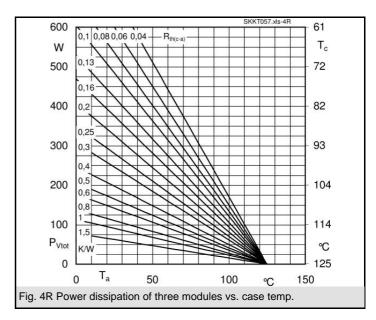


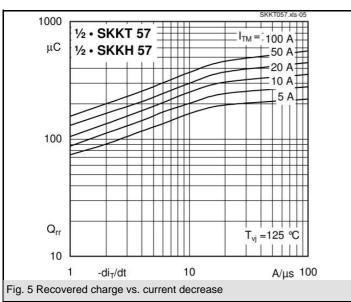


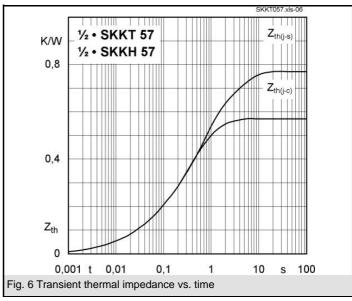


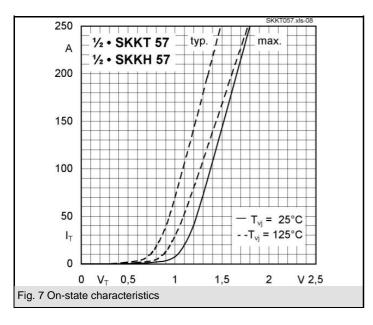
## **SKKT 57, SKKH 57, SKKT 57B**

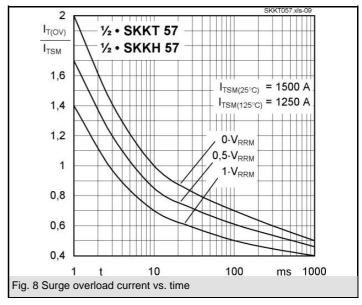


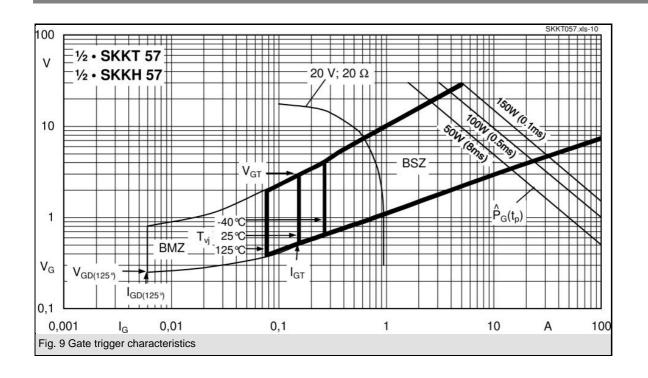


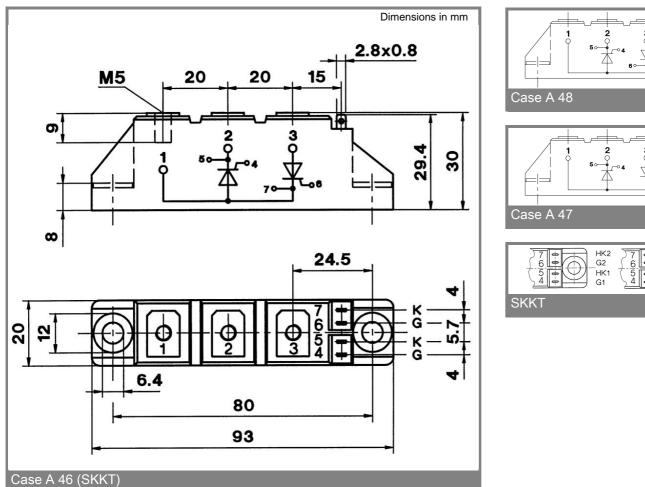


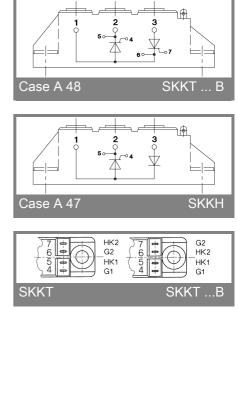












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