SKKT 57, SKKH 57, SKKT 57B



V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 95 A (maximum value for continuous operation)			
V	V	I _{TAV} = 55 A (sin. 180; T _c = 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[®] 1

Thyristor / Diode Modules

SKKT 57 SKKH 57 SKKT 57B

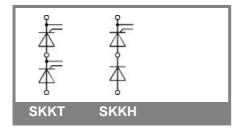
Features

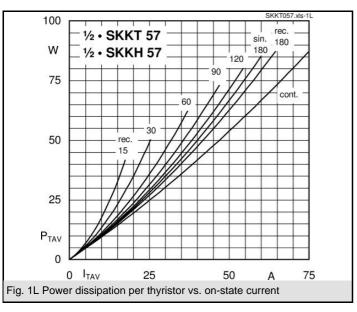
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered jounts for high reliability
- UL recognized, file no. E 63 532

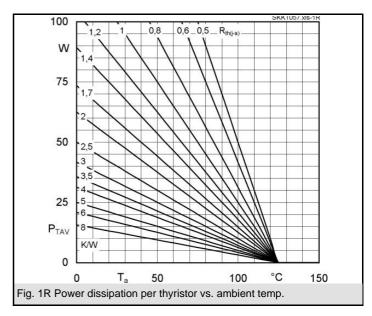
Typical Applications*

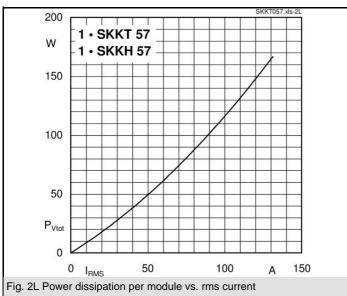
- DC motor control (e. g. for machine tools)
- · AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

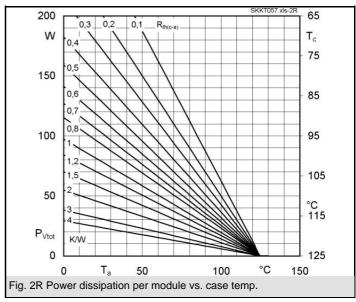
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	50 (35)	Α
I _D	P3/180; T _a = 45 °C; B2 / B6	57 / 68	Α
	P3/180F; T _a = 35 °C; B2 / B6	100 /130	Α
I_{RMS}	P3/180F; T _a = 35 °C; W1 / W3	130 / 3 x 100	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	1500	Α
	$T_{vi} = 125 ^{\circ}\text{C}; 10 \text{ms}$	1250	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	11000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	8000	A²s
V _T	T _{vi} = 25 °C; I _T = 200 A	max. 1,65	V
$V_{T(TO)}$	T _{vi} = 125 °C	max. 0,9	V
r _T	T _{vj} = 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 _{gd}	T_{vj} = 25 °C; I_G = 1 A; di_G/dt = 1 A/ μ s	1	μs
t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 150	A/µs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 1000	V/µs
t _q	T _{vi} = 125 °C ,	80	μs
I _H	T _{vj} = 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 _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vi} = 25 ^{\circ}\text{C}; \text{d.c.}$	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 _{th(j-c)}	cont.; per thyristor / per module	0,57 / 0,29	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,6 / 0,3	K/W
R _{th(j-c)}	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 + 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 terminals	3 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKT	A 46	
	SKKTB	A 48	
	SKKH	A 47	

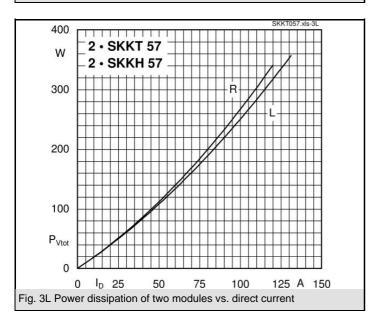


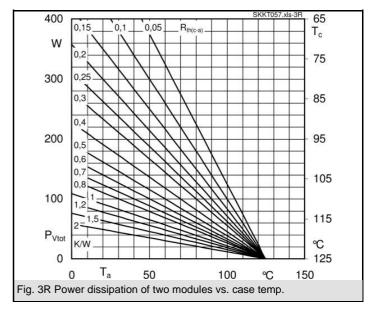




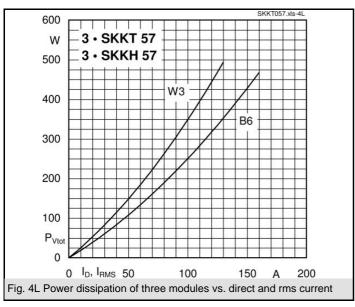


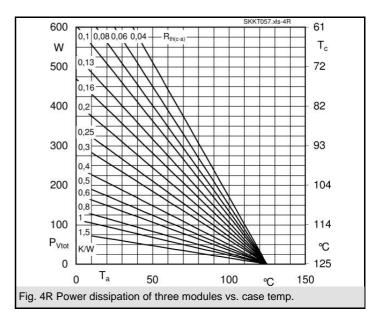


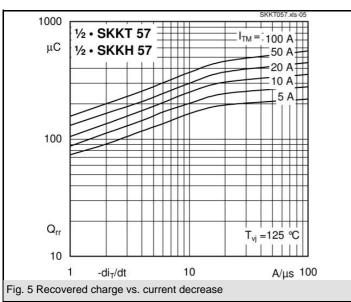


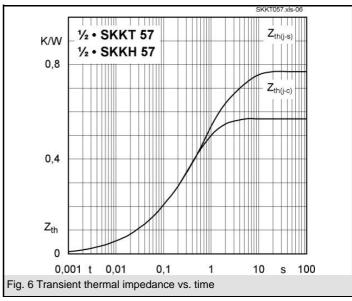


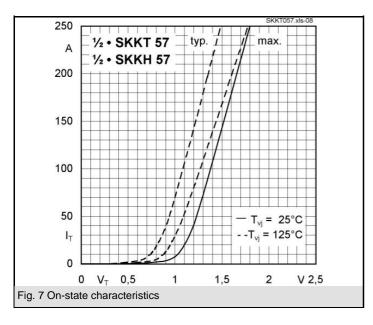
SKKT 57, SKKH 57, SKKT 57B

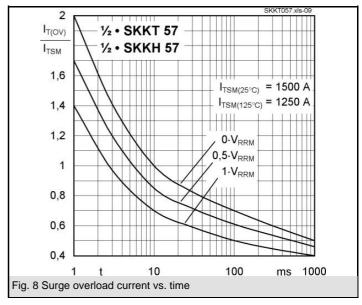


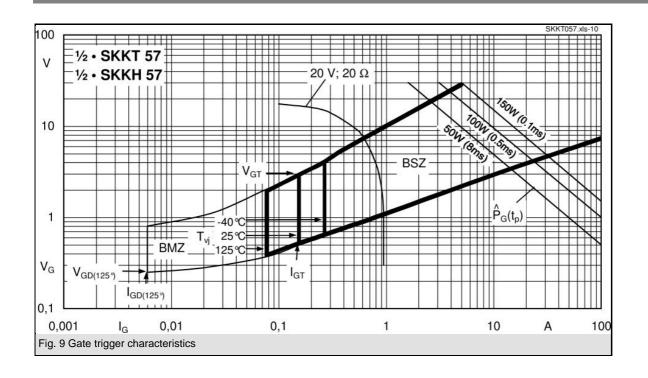


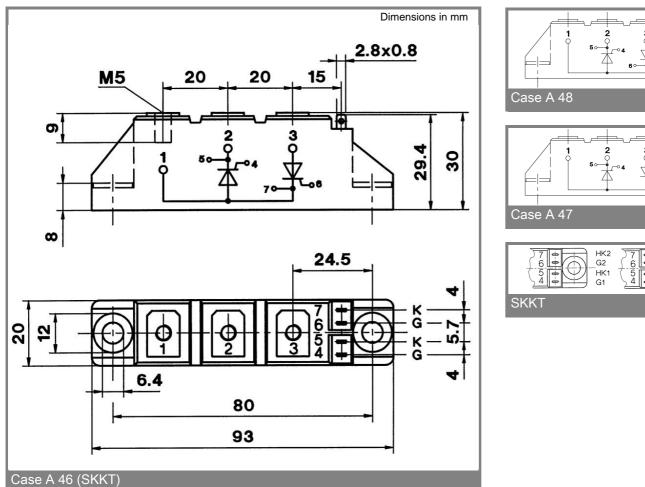


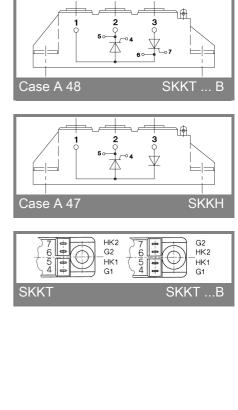












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