SKKT 57, SKKH 57, SKKT 57B



SEMIPACK[®] 1

Thyristor / Diode Modules

S	ккт	57
s	ккн	57

SKKT 57B

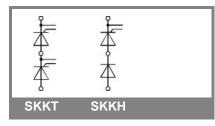
Features

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

Typical Applications*

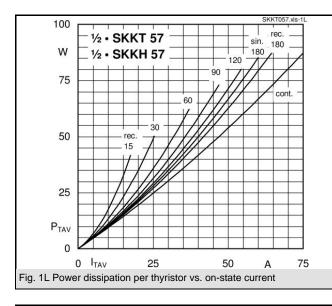
- DC motor control (e. g. for machine tools)
- AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

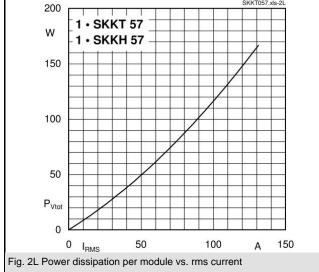
SNN	J		RISTOR						
V _{RSM}		V _{RRM} , V _{DRM}	I _{TRMS} = 95 A (ma	naximum value for continuous operation)					
V		V	I _{TAV} =	55	6 A (sin. 180; T _c = 80 °C)				
900		800	SKKT 57/08E	5	SKKT 57B08E				
1300		1200	SKKT 57/12E	5	SKKT 57B12E SKKH		1 57/12E		
1500		1400	SKKT 57/14E	5	SKKT 57B14E	SKKH 57/	SKKH 57/14E		
1700		1600	SKKT 57/16E	5	SKKT 57B16E	SKKH 57/16E			
1900		1800	SKKT 57/18E	5	SKKT 57B18E	SKKH 57/18E			
Council of					Veluee		11		
Symbol		onditions	0) °C.		Values		Units		
ITAV		. 180; T _c = 85 (10			50 (35) 57 / 68		A A		
I _D	P3/180; $T_a = 45 \text{ °C}$; B2 / B6					A			
	P3/180F; T _a = 35 °C; B2 / B6 P3/180F; T _a = 35 °C; W1 / W3				100 /130				
I _{RMS}			; \\1 / \\3	130 / 3 x 100		A			
ITSM	$T_{vj} = 25 \text{ °C}; 10 \text{ ms}$				1500		A		
:24	$T_{vj} = 125 \text{ °C}; 10 \text{ ms}$				1250	A A²s			
i²t	T _{vj} = 25 °C; 8,3 10 ms T _{vi} = 125 °C; 8,3 10 ms				11000	-			
	.,				8000		A ² s		
V _T		= 25 °C; I _T = 200	A		max. 1,65		V V		
V _{T(TO)}		= 125 °C = 125 °C			max. 0,9 max. 3,5		ν mΩ		
r _T				max. 5,5					
I _{DD} ; I _{RD} ≁	т vj	= 125 °C; V _{RD} = = 25 °C; I _G = 1 A;	V_{RRM} ; $V_{\text{DD}} = V_{\text{DRM}}$	1		mA			
t _{gd} +		= 0,67 * V _{DRM}	, di _G /dt – T A/µs	2		µs µs			
t _{gr} (di/dt) _{cr}		= 0,07 V _{DRM} = 125 °C		max. 150		-			
(di/dt) _{cr} (dv/dt) _{cr}		= 125 °C = 125 °C		max. 1000		A/μs V/μs			
t _q		= 125 °C ,		80		μs			
'q I _H		= 25 °C; typ. / ma	IX.	150 / 250		mA			
IL		= 25 °C; R _G = 33			300 / 600		mA		
V _{GT}		= 25 °C; d.c.	, ()p. ,	min. 3		V			
I _{GT}		= 25 °C; d.c.		min. 150		mA			
V _{GD}		= 125 °C; d.c.			max. 0,25		V		
I _{GD}	,	= 125 °C; d.c.			max. 6		mA		
R _{th(j-c)}	· ,	nt.; per thyristor / j	per module		0,57 / 0,29		K/W		
R _{th(j-c)}		. 180; per thyristo			0,6 / 0,3		K/W		
R _{th(j-c)}	rec	. 120; per thyristo	r / per module		0,64 / 0,32		K/W		
$R_{th(c-s)}$	per	r thyristor / per mo	odule		0,2 / 0,1		K/W		
T _{vj}				- 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 ł	neatsink		5 ± 15 % ¹⁾		Nm			
M _t	to t	erminals		3 ± 15 %		Nm m/s²			
а	5 * 9,81								
m	app	orox.		95		g			
Case	Case SKKT				A 46				
SKKTB					A 48				
	SK	КН			A 47				

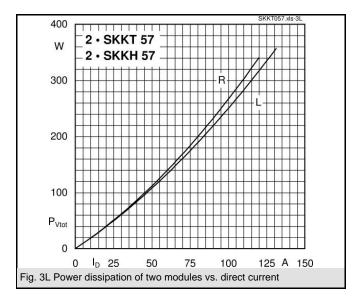


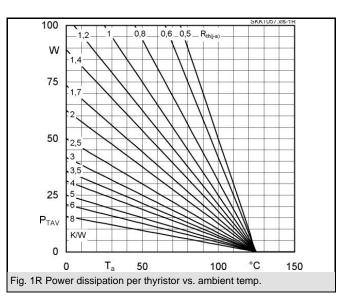
05-04-2011 GIL

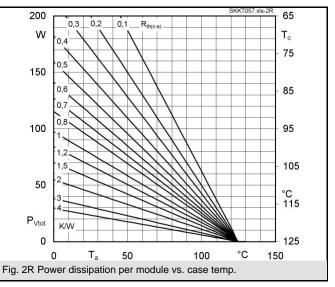
BRIDGE RECTIFI

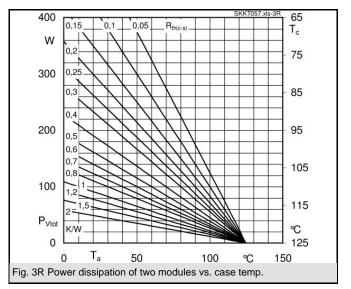




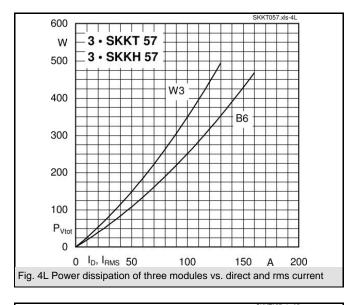


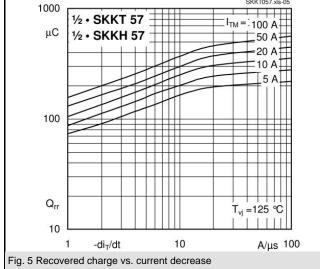


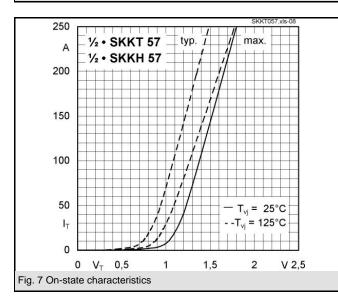


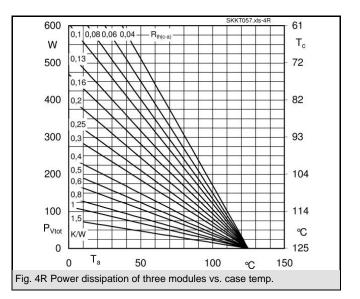


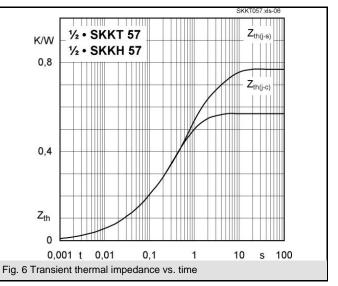
SKKT 57, SKKH 57, SKKT 57B

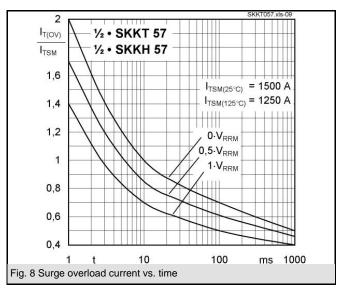


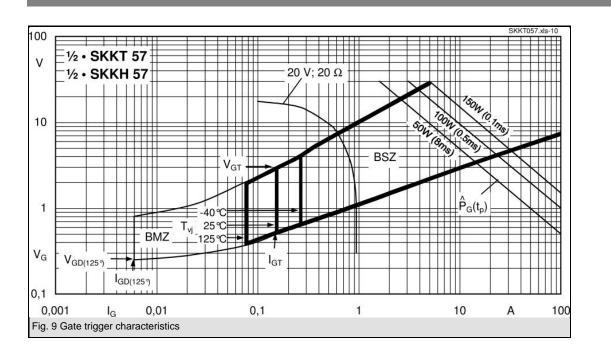


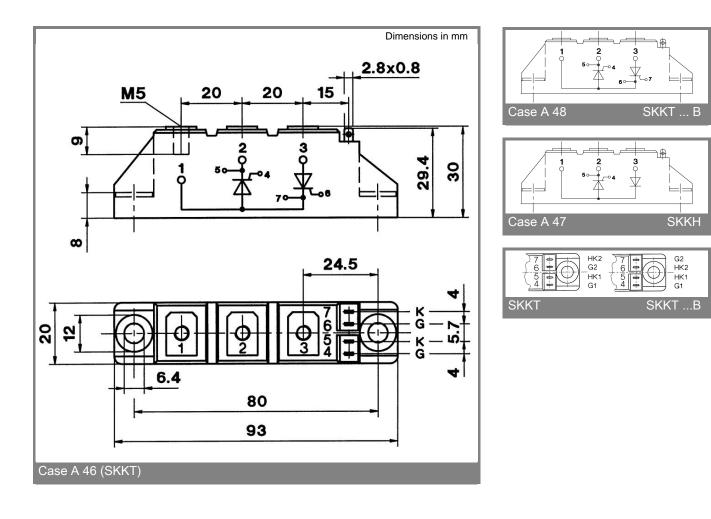












* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our staff.