

V_{RSM}	V_{RRM}	$(dv/dt)_{cr}$	I_{TRMS} (maximum value for continuous operation)			
	V_{DRM}		180 A			
			I_{TAV} (sin. 180; $T_{case} = 80\text{ °C}$)			
V	V	V/ μ s	115 A			
500	400	500	–	–	SKKH 105/04 D	–
700	600	500	SKKT 105/06 D	SKKT 106/06 D	–	SKKH 106/06 D
900	800	500	SKKT 105/08 D	SKKT 106/08 D ¹⁾	SKKH 105/08 D	SKKH 106/08 D
1300	1200	1000	SKKT 105/12 E	SKKT 106/12 E ¹⁾	SKKH 105/12 E	SKKH 106/12 E
1500	1400	1000	SKKT 105/14 E	SKKT 106/14 E ¹⁾	SKKH 105/14 E	SKKH 106/14 E
1700	1600	1000	SKKT 105/16 E	SKKT 106/16 E ¹⁾	SKKH 105/16 E	SKKH 106/16 E
1900	1800	1000	SKKT 105/18 E	SKKT 106/18 E ¹⁾	SKKH 105/18 E	SKKH 106/18 E

Symbol	Conditions		SKKT 105 SKKH 105	SKKT 106 SKKT 106B SKKH 106	Units
I _{TAV}	sin. 180; T _{case} = 85 °C		106		A
I _D	B2/B6	T _{amb} = 35 °C; P 3/180 F	145 / 180		A
		P 16/200 F	190 / 260		A
I _{RMS}	W1/W3	T _{amb} = 35 °C; P 3/180 F	200 / 3 x 140		A
I _{TSM}	T _{vj} = 25 °C; 10 ms		2 250		A
	T _{vj} = 130 °C; 10 ms		1 900		A
i ² t	T _{vj} = 25 °C; 8,3 ... 10 ms		25 000		A ² s
	T _{vj} = 130 °C; 8,3 ... 10 ms		18 000		A ² s
t _{gd}	T _{vj} = 25 °C; I _G = 1 A				
	di _G /dt = 1 A/μs		1		μs
t _{gr}	V _D = 0,67 · V _{DRM}		2		μs
(di/dt) _{cr}	T _{vj} = 130 °C		150		A/μs
t _q	T _{vj} = 130 °C		typ. 100		μs
I _H	T _{vj} = 25 °C; typ./max.		150 / 250		mA
I _L	T _{vj} = 25 °C; R _G = 33 Ω; typ./max.		300 / 600		mA
V _T	T _{vj} = 25 °C; I _T = 300 A		max. 1,65		V
V _{T(TO)}	T _{vj} = 130 °C		0,9		V
r _T	T _{vj} = 130 °C		2		mΩ
I _{DD} ; I _{RD}	T _{vj} = 130 °C; V _{RD} = V _{RRM} V _{DD} = V _{DRM}		max. 20		mA
V _{GT}	T _{vj} = 25 °C; d.c.		3		V
I _{GT}	T _{vj} = 25 °C; d.c.		150		mA
V _{GD}	T _{vj} = 130 °C; d.c.		0,25		V
I _{GD}	T _{vj} = 130 °C; d.c.		6		mA
R _{thjc}	cont.	} per thyristor / per module	0,28 / 0,14		°C/W
	sin. 180		0,30 / 0,15		°C/W
	rec. 120		0,32 / 0,16		°C/W
R _{thch}			0,2 / 0,1		°C/W
T _{vj}			– 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 ₁	to heatsink		5 (44 lb. in.) ± 15 % ²⁾		Nm
M ₂	to terminals		3 (26 lb. in.) ± 15 % ²⁾		Nm
a			5 · 9,81		m/s ²
w	approx.		95		g
Case	→ page B 1 – 95		SKKT 105: A 5	SKKT 106: A 46	
			SKKH 105: A 6	SKKT 106B: A 48	
				SKKH 106: A 47	



勝特力材料 886-3-5753170

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胜特力电子(深圳) 86-755-83298787

Http://www.100y.com.tw



SKKT 105

SKKH 105



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) Also available in SKKT 106 B configuration (case A 48)

2) See the assembly instructions

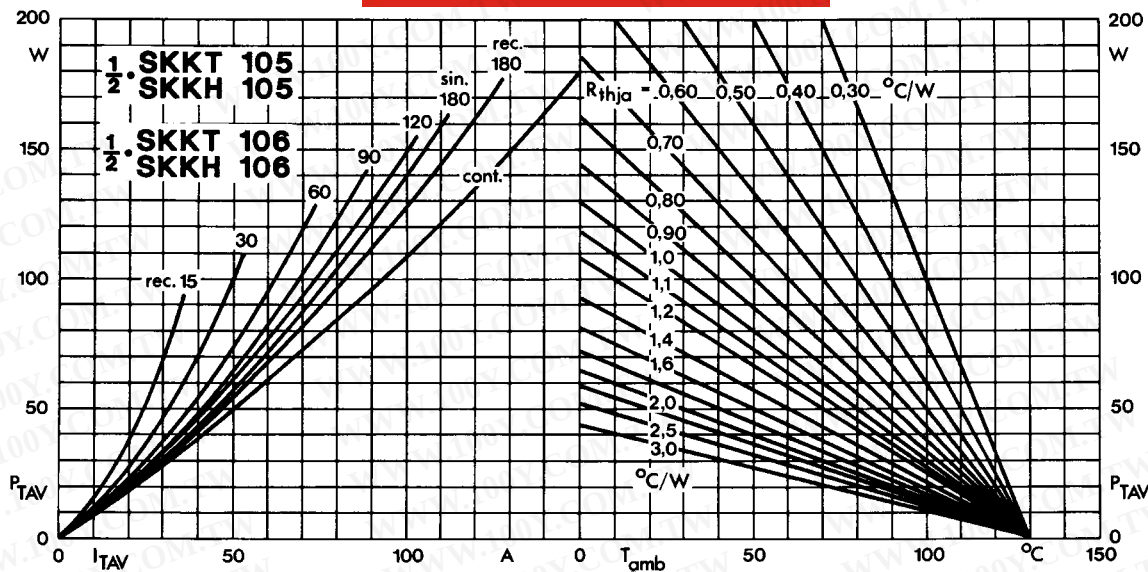


Fig. 1 Power dissipation per thyristor vs. on-state current and ambient temperature

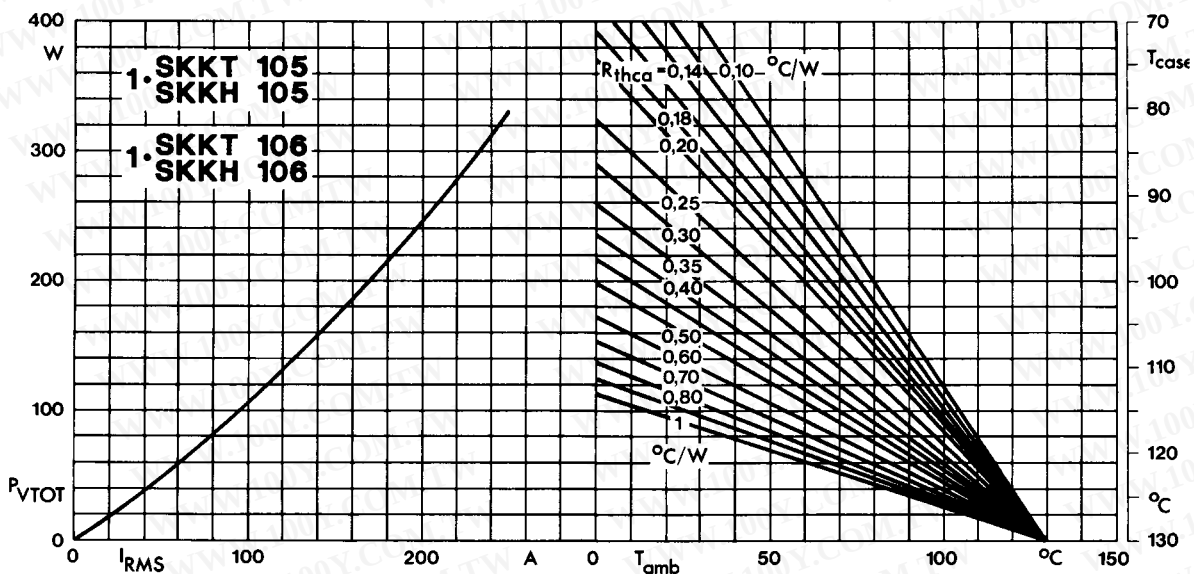


Fig. 2 Power dissipation per module vs. rms current and case temperature

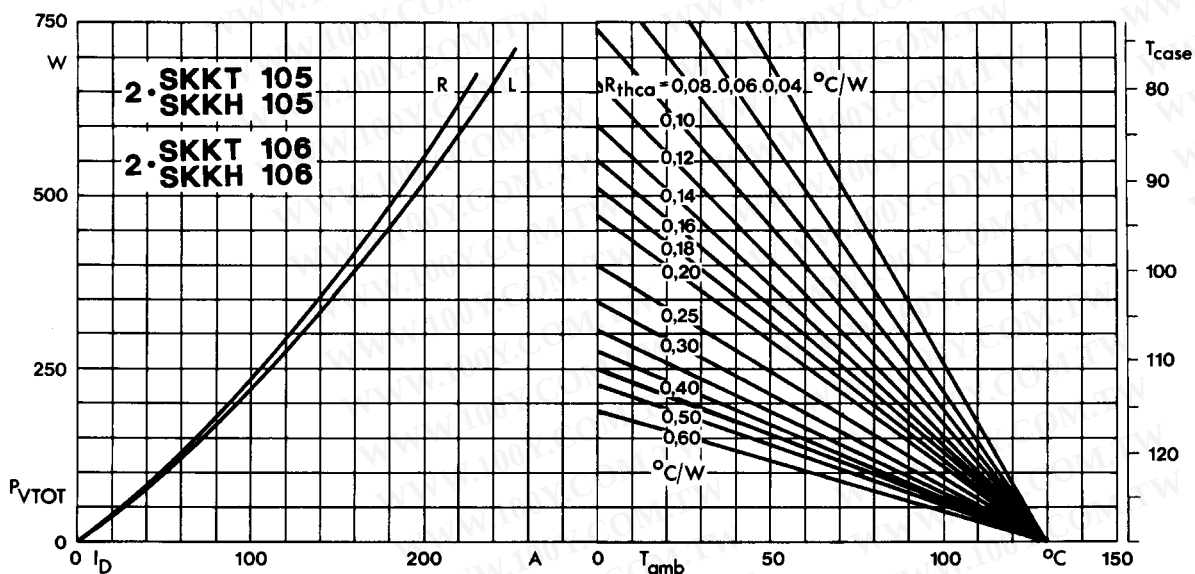


Fig. 3 Power dissipation of two modules vs. direct current and case temperature

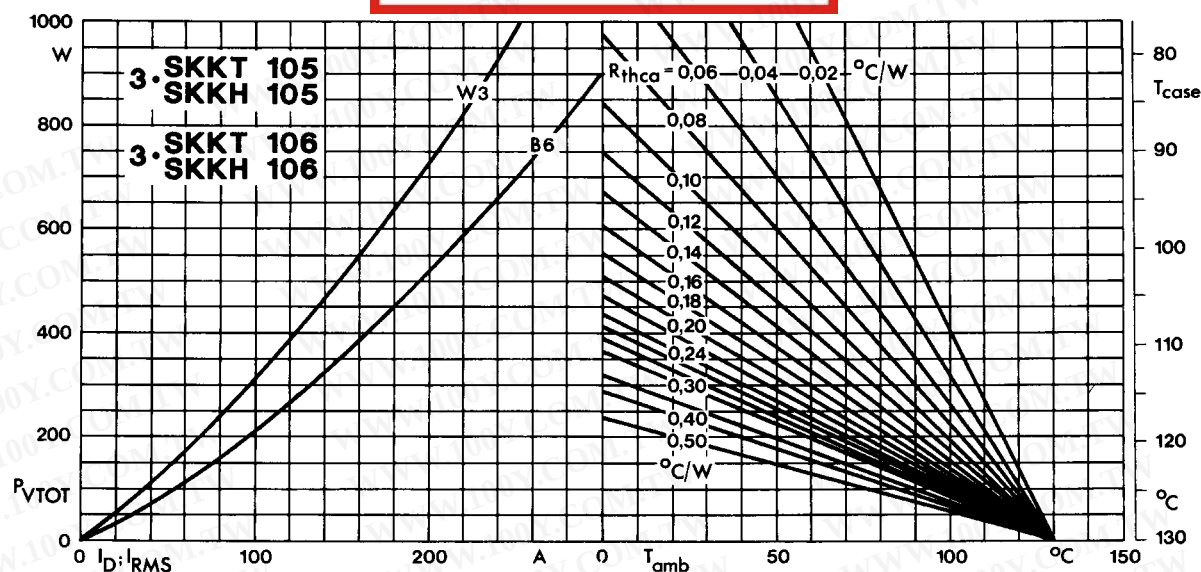


Fig. 4 Power dissipation of three modules vs. direct and rms current and case temperature

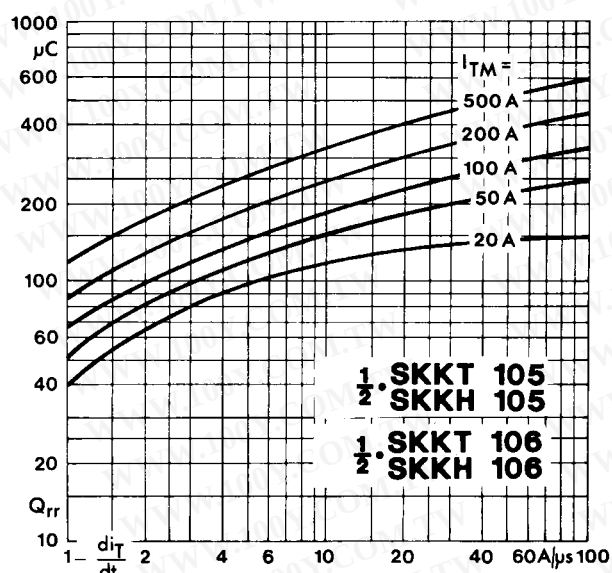


Fig. 5 Recovered charge vs. current decrease

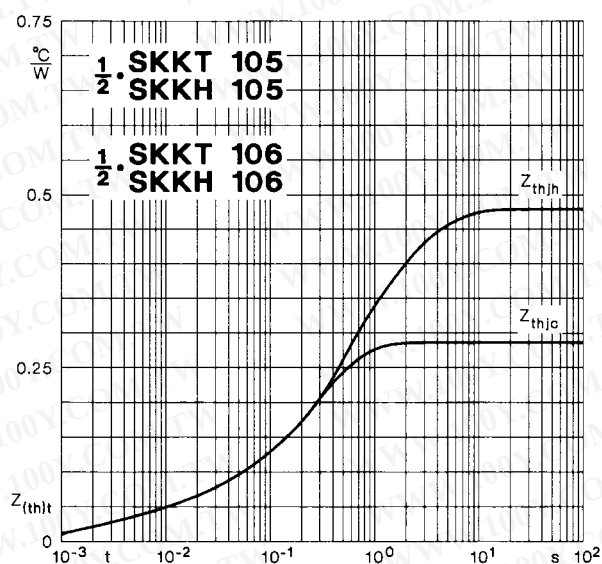


Fig. 6 Transient thermal impedance vs. time

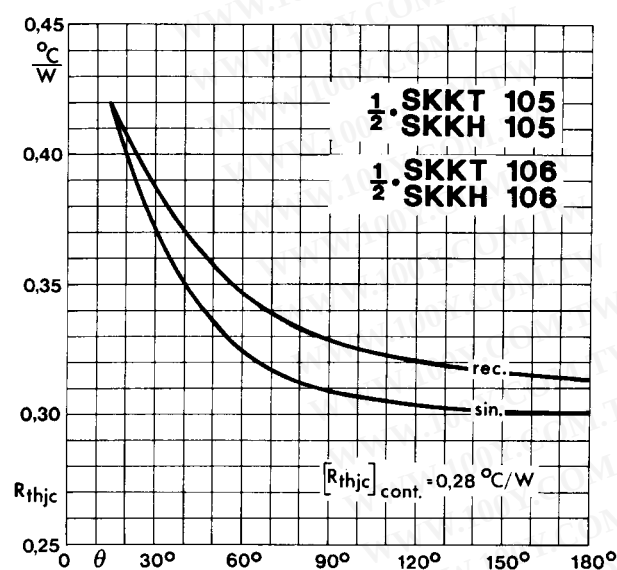


Fig. 7 Thermal resistance vs. conduction angle

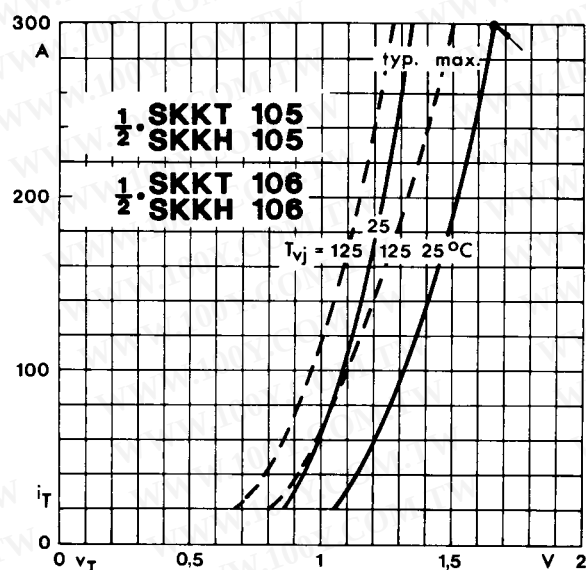


Fig. 8 On-state characteristics

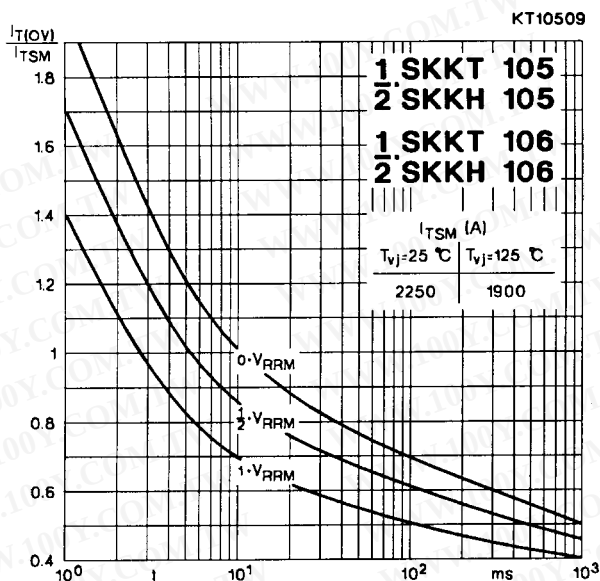


Fig. 9 Surge overload current vs. time

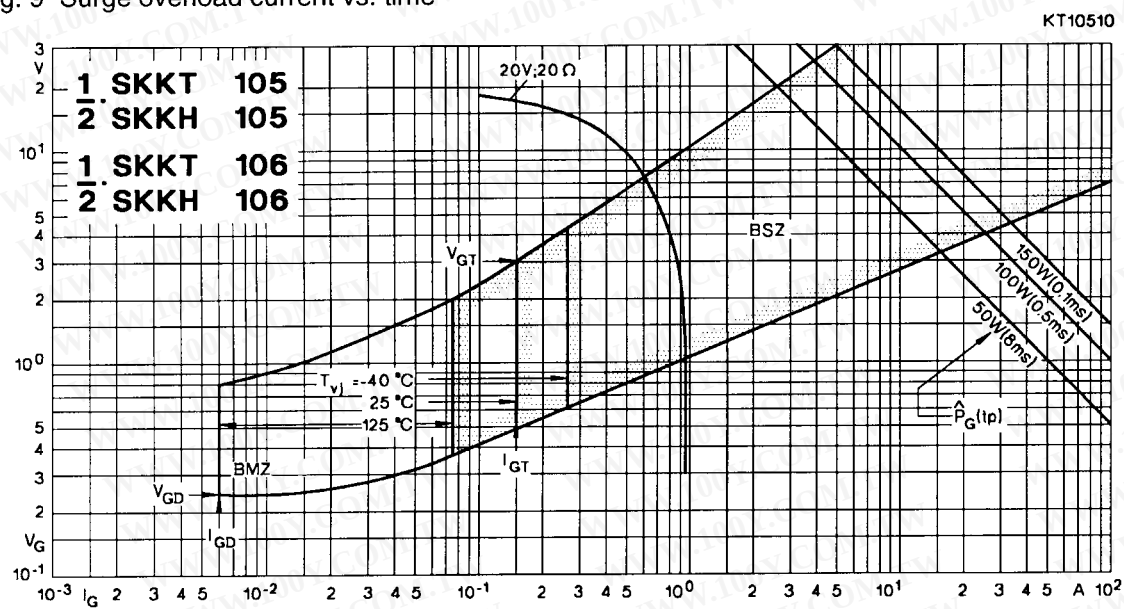


Fig. 10 Gate trigger characteristics

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SKKT 19 ... 105

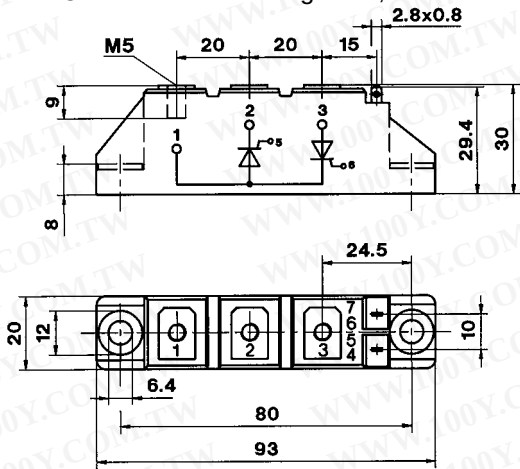
Case A 5

IEC 192-2: A 77 A

JEDEC: TO-240 AA

SEMIPACK® 1

UL recognized, file no. E 63 532



Dimensions in mm

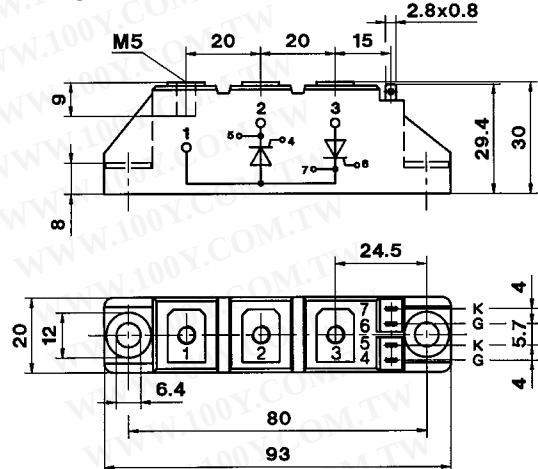
SKKT 20/ ... 106/

Case A 46

IEC 192-2: A 77 A

JEDEC: TO-240 AA

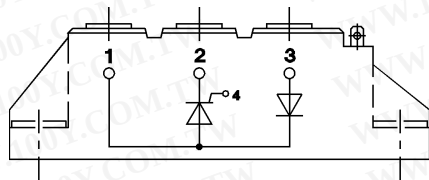
SEMIPACK® 1



Dimensions in mm

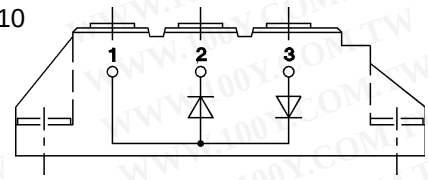
SKKH 26 ... 105

Case A 6



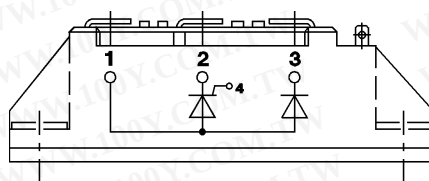
SKKD 26 ... 100

Case A 10



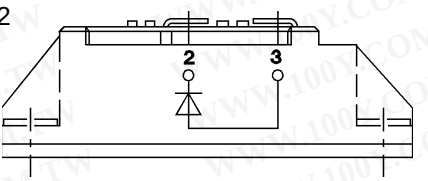
SKNH 56 ... 91

Case A 7



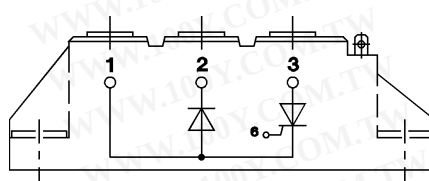
SKKE 81

Case A 12



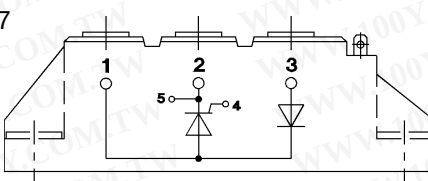
SKKL 56 ... 105

Case A 9



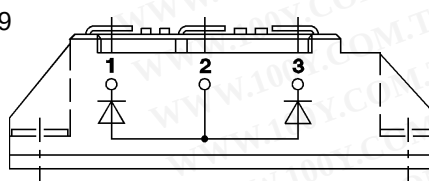
SKKH 27 ... 106

Case A 47



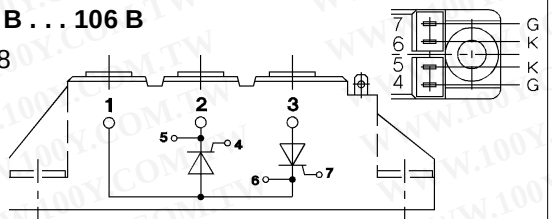
SKND 46 ... 81

Case A 19



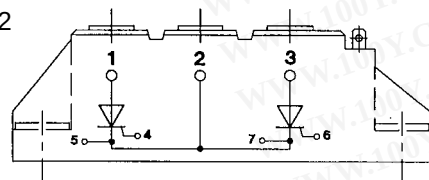
SKKT 20 B ... 106 B

Case A 48



SKMT 92

Case A 72



SKKL 42 ... 106

Case A 59

