

V _{RSM}	V _{RRM}	I _{FRMS} (maximum value for continuous operation)		
		90 A	140 A	140 A
		I _{FAV} (sin. 180; T _{case} = . . .)		
V	V	57 A (71 °C)	90 A (80 °C)	90 A (80 °C)
500	400	SKKD 46/04	SKKD 81/04	SKKE 81/04
700	600	SKKD 46/06	SKKD 81/06	SKKE 81/06
900	800	SKKD 46/08	SKKD 81/08	SKKE 81/08
1300	1200	SKKD 46/12	SKKD 81/12	SKKE 81/12
1500	1400	SKKD 46/14	SKKD 81/14	SKKE 81/14
1700	1600	SKKD 46/16	SKKD 81/16	SKKE 81/16
1900	1800	SKKD 46/18	SKKD 81/18	SKKE 81/18
2100	2000	–	SKKD 81/20	SKKE 81/20
2300	2200	–	SKKD 81/22	SKKE 81/22

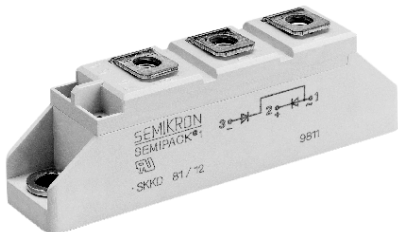
SKKD 46

SKND 46¹⁾

SKKD 81

SKKE 81

SKND 81¹⁾



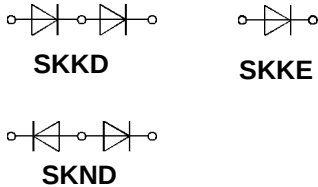
Symbol	Conditions	SKKD 46	SKKD 81 SKKE 81	Units
I _{FAV} I _D ¹⁾	sin. 180 (T _{case} = . . .) B2/B6 T _{amb} = 45 °C; P 3/120 P 3/180 T _{amb} = 35 °C; P 3/180 F	45 (86 °C) 50 / 60 54 / 66 95 / 120	80 (87 °C) 63 / 70 70 / 85 135 / 175	A A A A
I _{FSM}	T _{vj} = 25 °C; 10 ms T _{vj} = 125 °C; 10 ms	700 600	2 000 1 750	A A
i ² t	T _{vj} = 25 °C; 8,3 ... 10 ms T _{vj} = 125 °C; 8,3 ... 10 ms	2 450 1 800	20 000 15 000	A ² s A ² s
I _{RD}	T _{vj} = 125 °C; V _{RD} = V _{RRM}	3	4,5	mA
V _F	T _{vj} = 25 °C; (I _F = . . .); max.	1,95 (250 A)	1,55 (300 A)	V
V _(TO)	T _{vj} = 125 °C	0,85	0,85	V
r _T	T _{vj} = 125 °C	5	1,8	mΩ
R _{thjc} R _{thch}	} per diode / per module ²⁾	0,6 / 0,3 0,2 / 0,1	0,4 / 0,2 0,2 / 0,1	°C/W °C/W
T _{vj}		– 40 ... + 125		°C
T _{stg}		– 40 ... + 125		°C
V _{isol} M ₁ M ₂ a w		3600 / 3000 5 (44 lb. in.) ± 15 % ³⁾ 3 (26 lb. in.) ± 15 % ³⁾ 5 · 9,81 120 ⁴⁾		V~ Nm Nm m/s ² g
Case	→ page B 1 – 95	SKKD: A 10 SKKE: A 12 SKND: A 19		

1) SKND 46, SKND 81 available on request

2) SKKD types only

3) See the assembly instructions

4) SKKD 46, SKKD 81 95 g



- Features

 - Heat transfer through aluminium oxide ceramic isolated metal baseplate
 - Hard soldered joints for high reliability
 - SKND** center tap connection common anode
 - UL recognized, file no. E 63 532

- Typical Applications

 - Non-controllable rectifiers for AC/AC converters
 - Line rectifiers for transistorized AC motor controllers
 - Field supply for DC motors
 - SKKE: Free-wheeling diodes

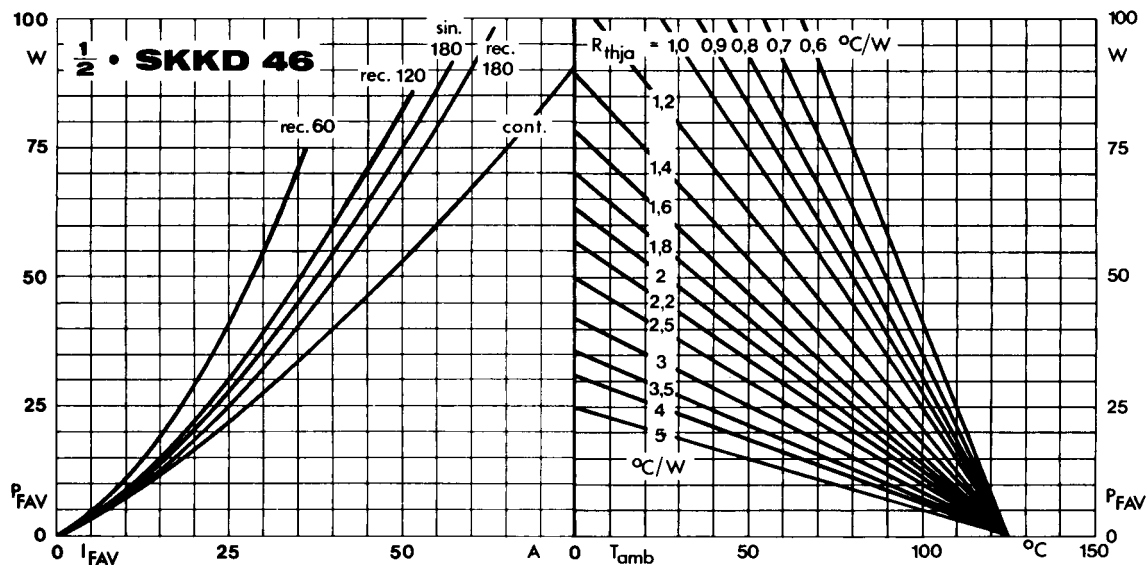


Fig. 11 a Power dissipation per diode vs. forward current and ambient temperature

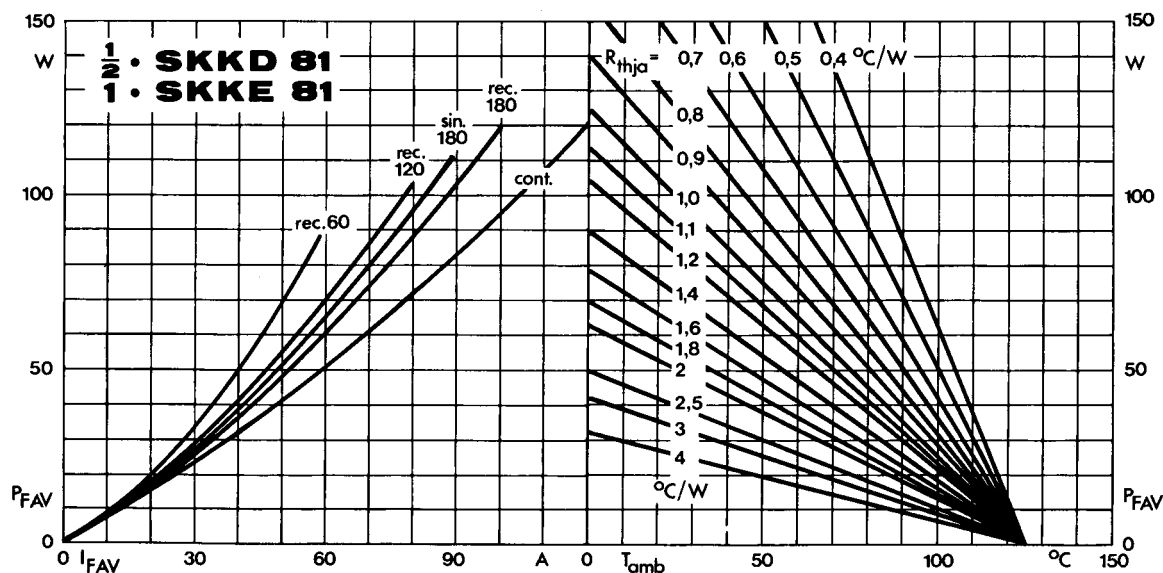


Fig. 11 b Power dissipation per diode vs. forward current and ambient temperature

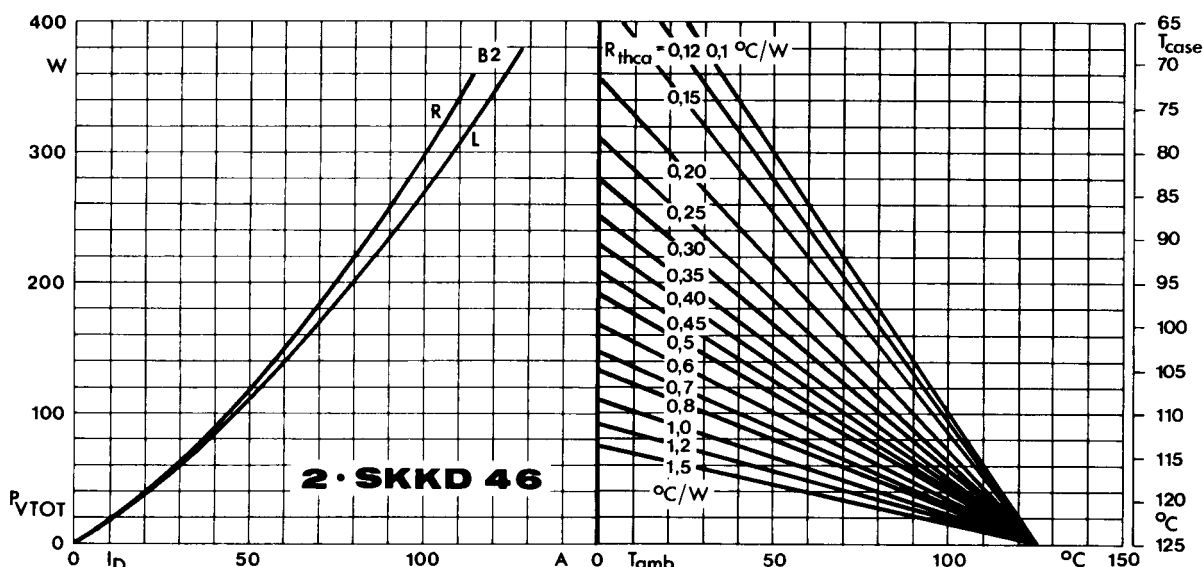


Fig. 12 a Power dissipation of two modules vs. direct current and case temperature

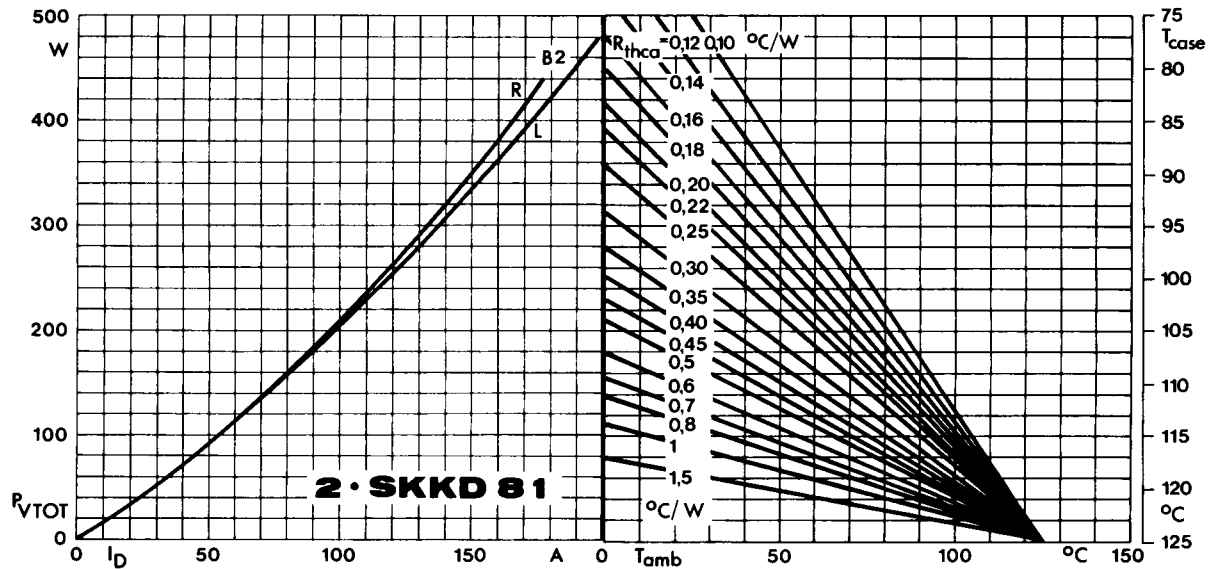


Fig. 12 b Power dissipation of two modules vs. direct current and case temperature

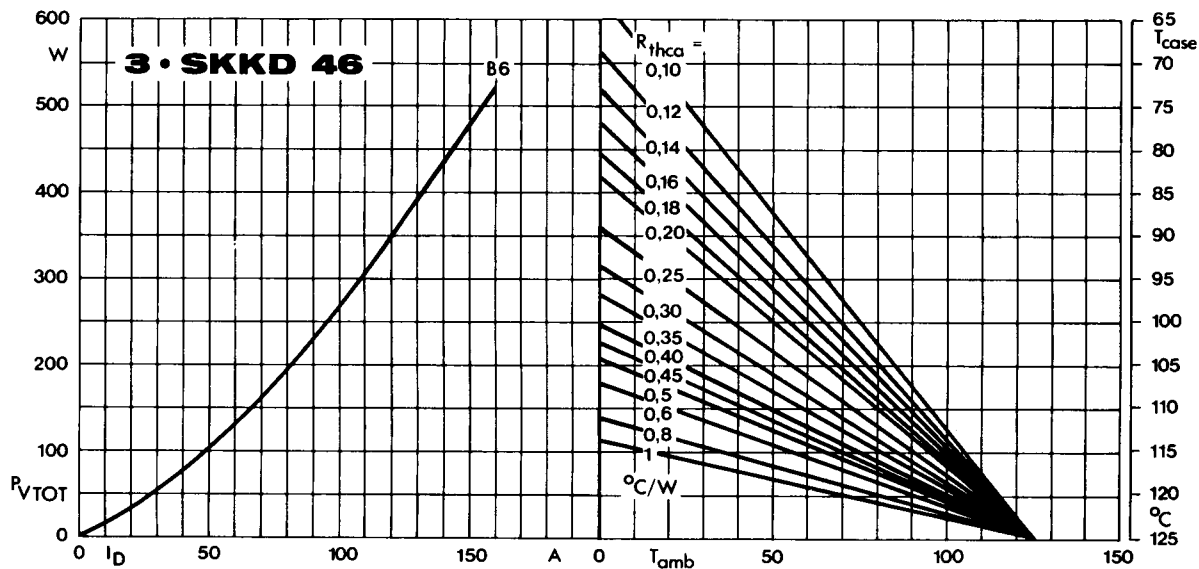


Fig. 13 a Power dissipation of three modules vs. direct current and case temperature

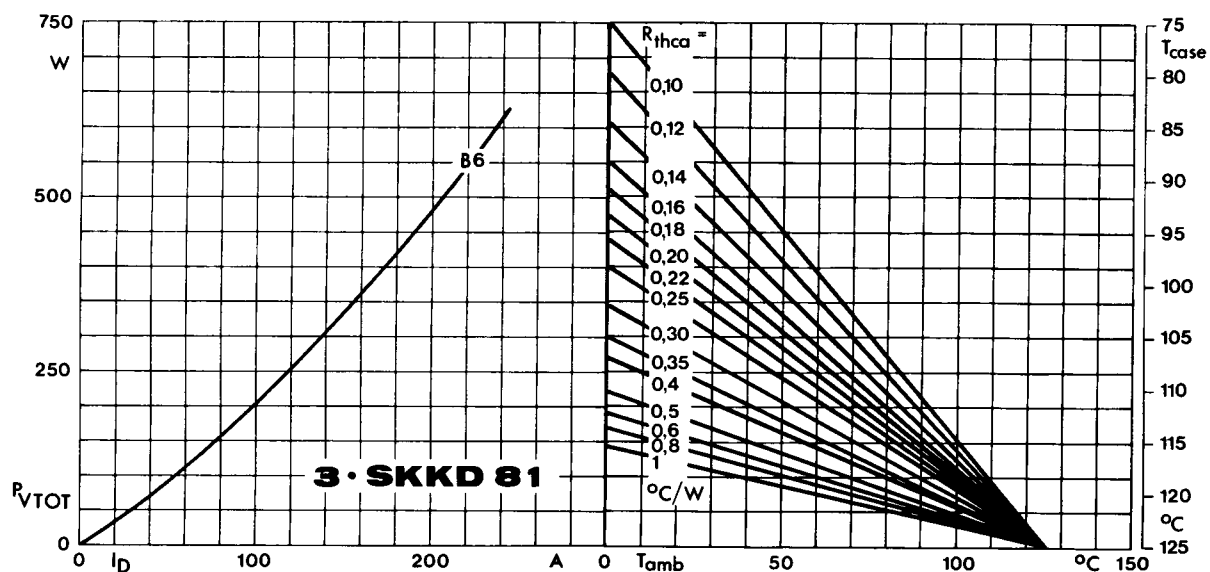


Fig. 13 b Power dissipation of three modules vs. direct current and case temperature

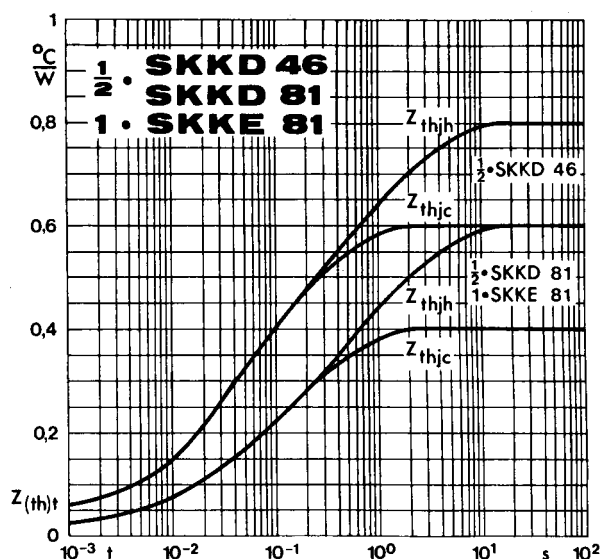


Fig. 14 Transient thermal impedance vs. time

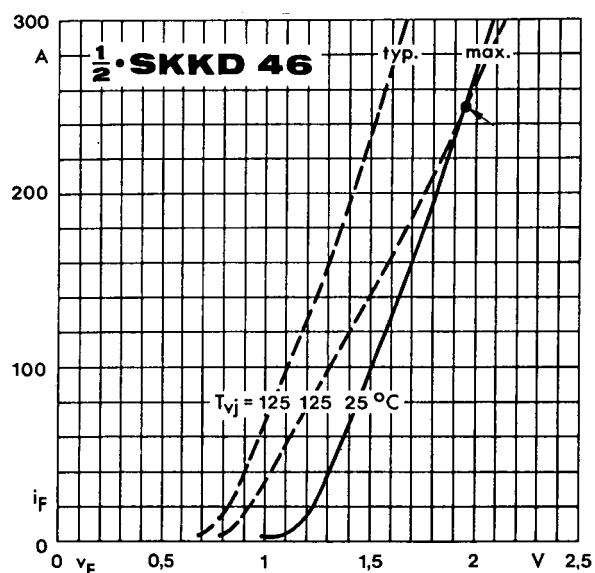


Fig. 15 a Forward characteristics

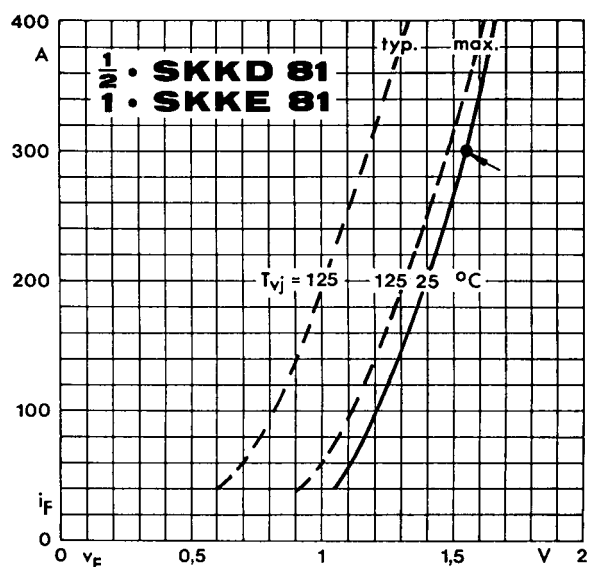


Fig. 15 b Forward characteristics

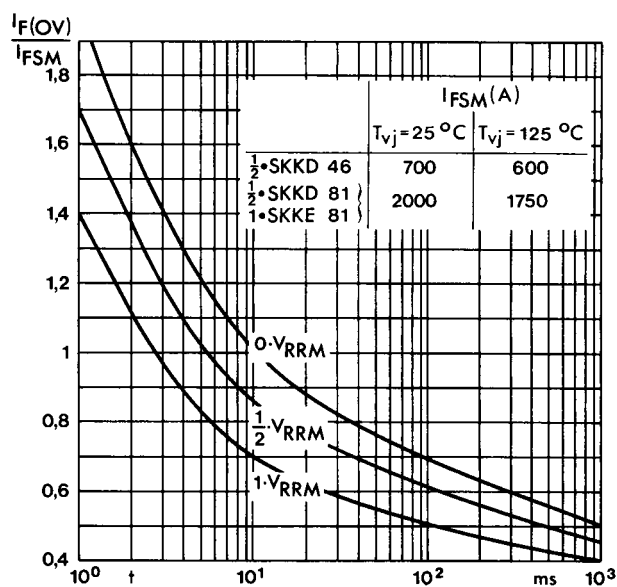


Fig. 16 Surge overload current vs. time

SKKT 19 ... 105

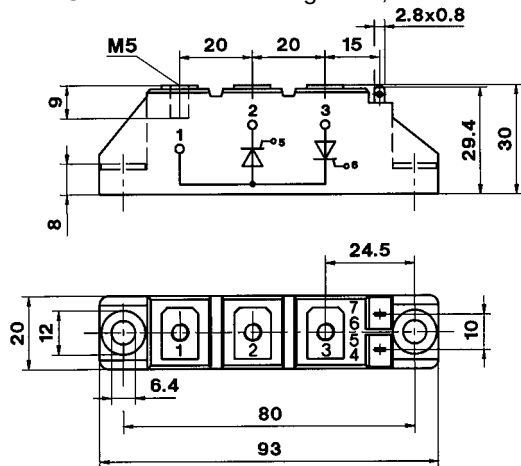
Case A 5

IEC 192-2: A 77 A

JEDEC: TO-240 AA

SEMIPACK® 1

UL recognized, file no. E 63 532



Dimensions in mm

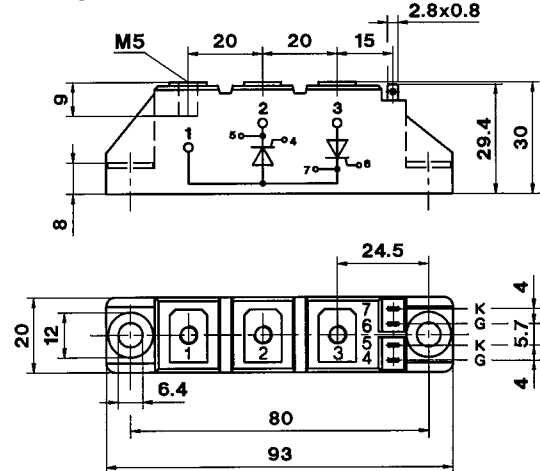
SKKT 20/ ... 106/

Case A 46

IEC 192-2: A 77 A

JEDEC: TO-240 AA

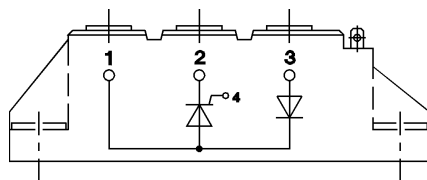
SEMIPACK® 1



Dimensions in mm

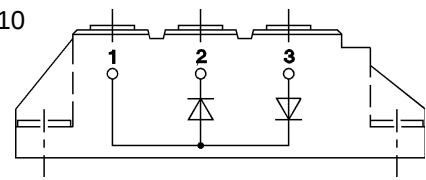
SKKH 26 ... 105

Case A 6



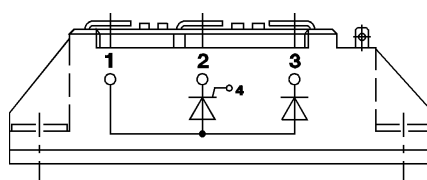
SKKD 26 ... 100

Case A 10



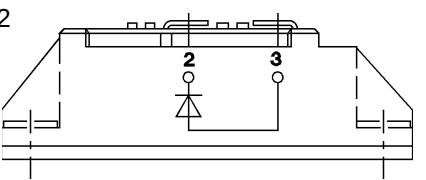
SKNH 56 ... 91

Case A 7



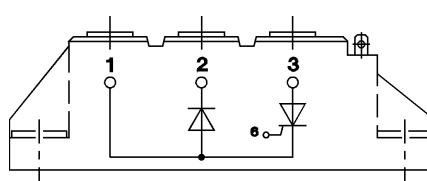
SKKE 81

Case A 12



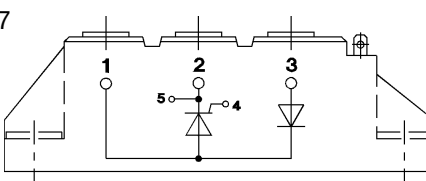
SKKL 56 ... 105

Case A 9



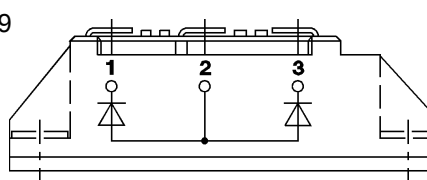
SKKH 27 ... 106

Case A 47



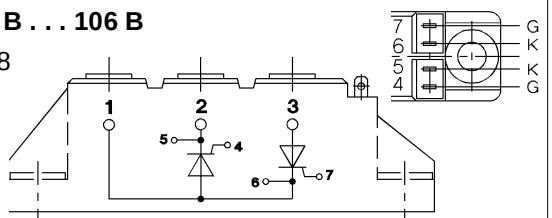
SKND 46 ... 81

Case A 19



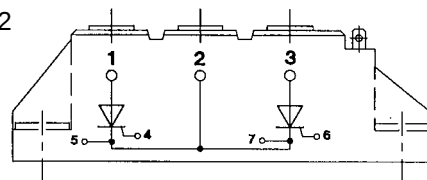
SKKT 20 B ... 106 B

Case A 48



SKMT 92

Case A 72



SKKL 42 ... 106

Case A 59

