

V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> (maximum value for continuous operation)		
		24 A <sup>2)</sup> ; 28 A <sup>3)</sup>	24 A <sup>2)</sup> ; 28 A <sup>3)</sup>	60 A
V	V	I <sub>FAV</sub> (sin. 180; T <sub>case</sub> = 71 °C)		
		17,5 A <sup>3)</sup>	17,5 A <sup>3)</sup>	38 A
500	400	–	<b>SKKE 15/04</b>	–
700	600	<b>SKKD 15/06</b>	<b>SKKE 15/06</b>	–
900	800	<b>SKKD 15/08</b>	<b>SKKE 15/08</b>	–
1300	1200	<b>SKKD 15/12</b>	<b>SKKE 15/12</b>	<b>SKKD 26/12</b>
1500	1400	<b>SKKD 15/14</b>	<b>SKKE 15/14</b>	<b>SKKD 26/14</b>
1700	1600	<b>SKKD 15/16</b>	<b>SKKE 15/16</b>	<b>SKKD 26/16</b>

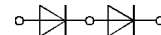
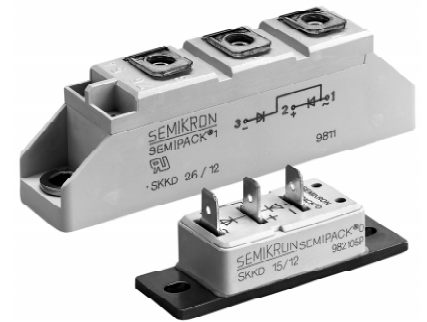
## Rectifier Diode Modules

### SEMIPACK® 0

**SKKD 15 SKKE 15**

### SEMIPACK® 1

**SKKD 26**



**SKKD**



**SKKE**

Symbol	Conditions	SKKD 15 SKKE 15	SKKD 26	Units	
I <sub>FAV</sub>	sin. 180 (T <sub>case</sub> = . . . )	15 (82 °C) –	26 (93 °C) 31 (85 °C)	A A	
I <sub>D</sub> <sup>1)</sup>	B2/B6   T <sub>amb</sub> = 45 °C; P 13A/125 P 3/120 P 3/180	18 / 22,5 – –	– 44 / 48 53 / 59	A A A	
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms T <sub>vj</sub> = 125 °C; 10 ms	320 280	550 480	A A	
i <sup>2</sup> t	T <sub>vj</sub> = 25 °C; 8,3 ... 10 ms T <sub>vj</sub> = 125 °C; 8,3 ... 10 ms	510 390	1 500 1 150	A <sup>2</sup> s A <sup>2</sup> s	
I <sub>RD</sub>	T <sub>vj</sub> = 125 °C, V <sub>RD</sub> = V <sub>RRM</sub>	2,5	3	mA	
V <sub>F</sub>	T <sub>vj</sub> = 25 °C; I <sub>F</sub> = 75 A; max.	1,85	1,35	V	
V <sub>(TO)</sub>	T <sub>vj</sub> = 125 °C	0,85	0,85	V	
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	15	6	mΩ	
R <sub>thjc</sub> R <sub>thch</sub>	} per diode / per module <sup>1)</sup>	2,0 / 1,0 0,2 / 0,1	1,0 / 0,5 0,2 / 0,1	°C/W °C/W	
T <sub>vj</sub> T <sub>stg</sub>		– 40 ... + 125 – 40 ... + 125		°C °C	
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s/1 min	3600 / 3000		V~	
M <sub>1</sub>	to heatsink	} SI (US) units	1,5 (13 lb. in.) ± 15 %	5 (44 lb. in.) ± 15 %	Nm
M <sub>2</sub>	to terminals		–	3 (26 lb.in.) ± 15 %	Nm
a w	approx.		5 · 9,81 50	5 · 9,81 95	m/s <sup>2</sup> g
Case	→ page B 1 – 30	SKKD 15: A 3 SKKE 15: A 4			
	→ page B 1 – 95		A 10		

## 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

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

<sup>1)</sup> SKKD types only

<sup>2)</sup> Using tin plated connectors with flexible leads of 6 mm<sup>2</sup> for the main terminals

<sup>3)</sup> Flexible leads of 6 mm<sup>2</sup> soldered to the main terminals

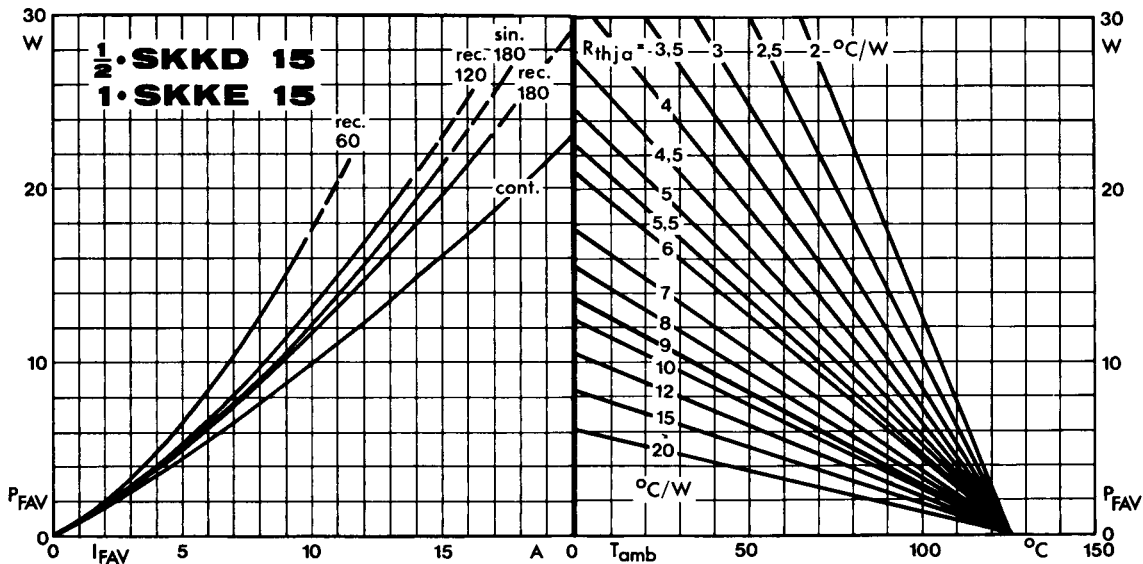


Fig. 11 a Power dissipation per diode vs. forward current and ambient temperature

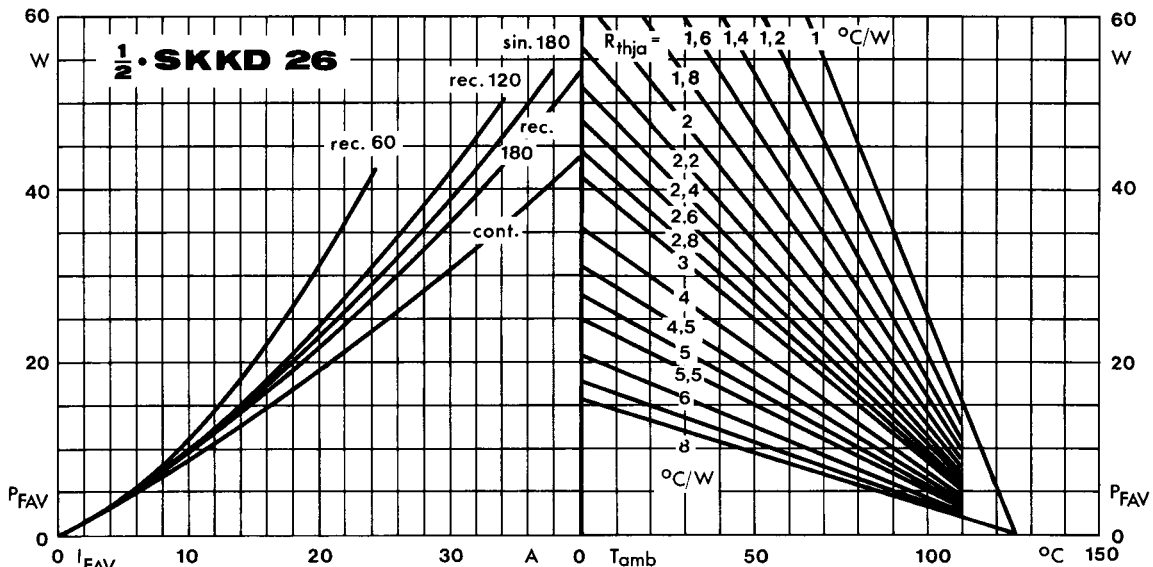


Fig. 11 b Power dissipation per diode vs. forward current and ambient temperature

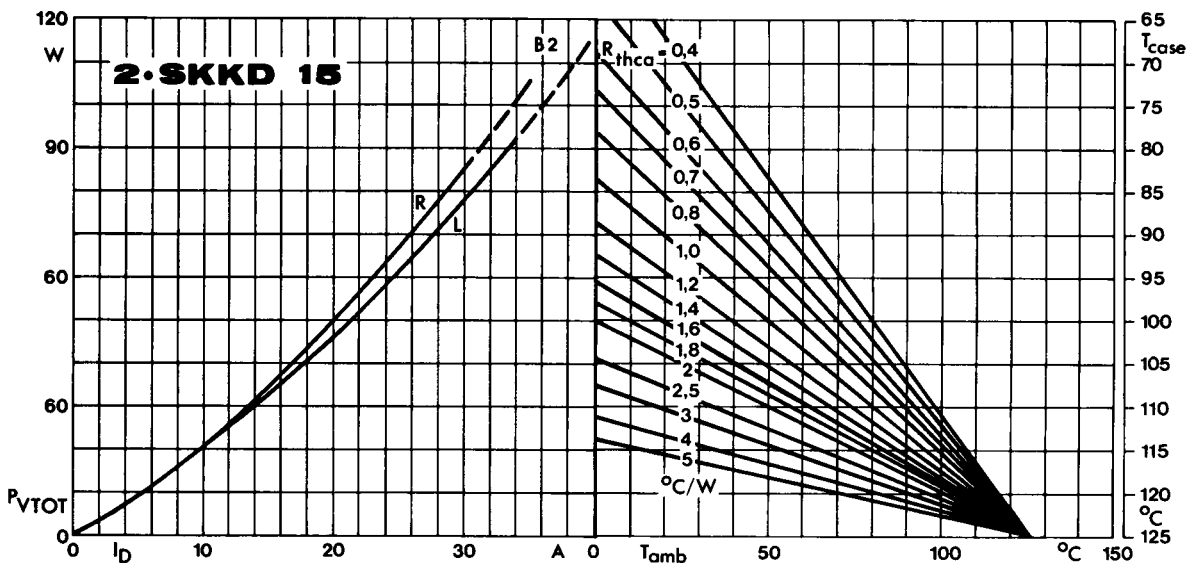


Fig. 12 a Power dissipation of two modules vs. direct current and case temperature

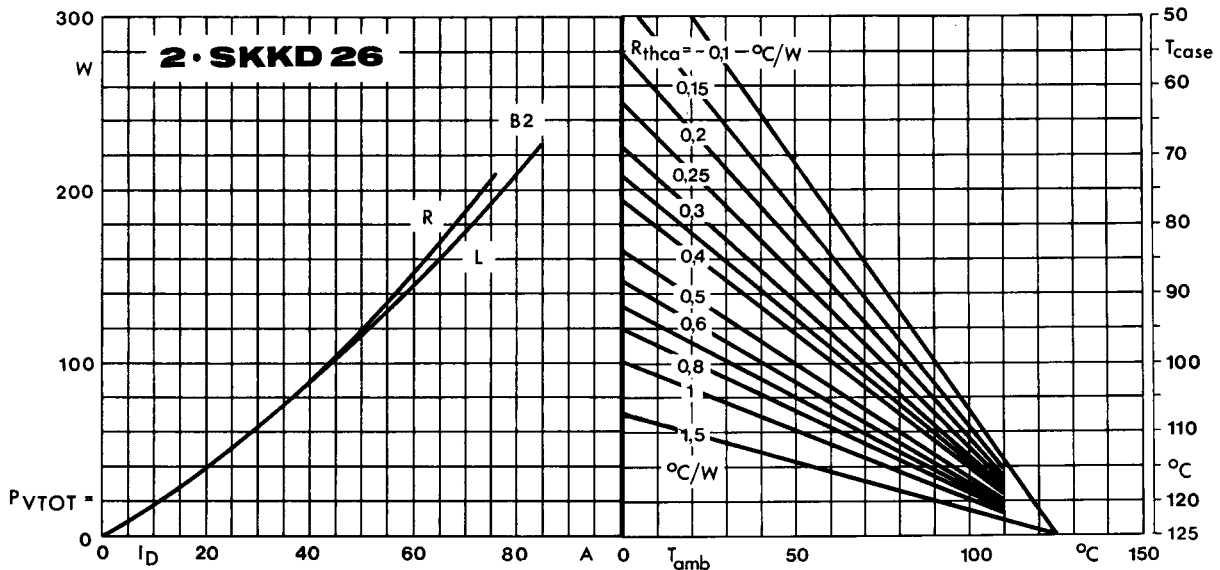


Fig. 12 b Power dissipation of two modules vs. direct current and case temperature

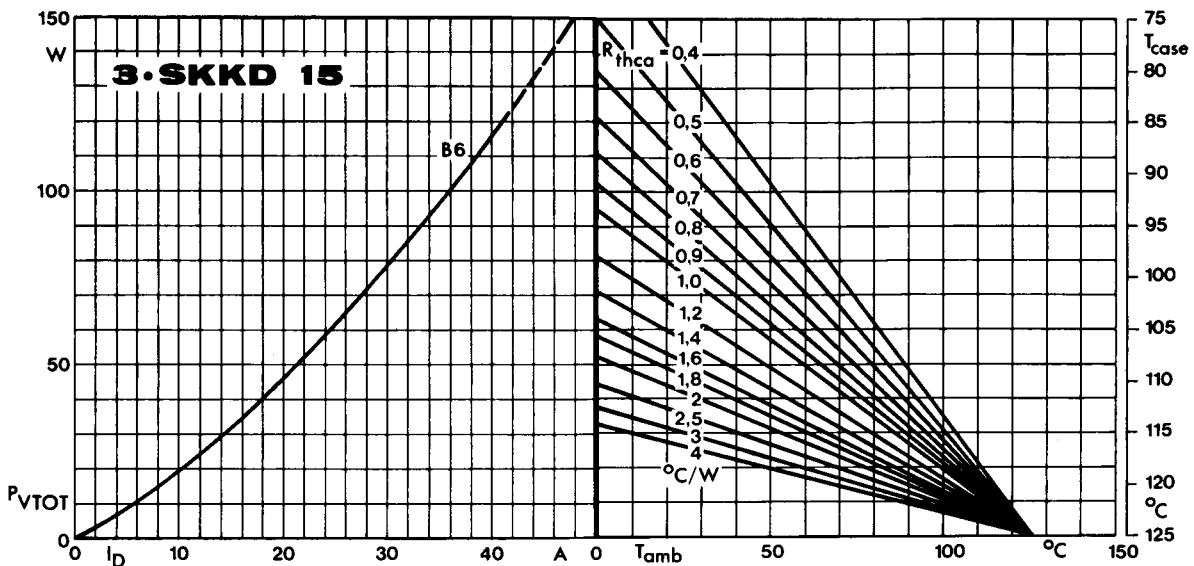


Fig. 13 a Power dissipation of three modules vs. direct current and case temperature

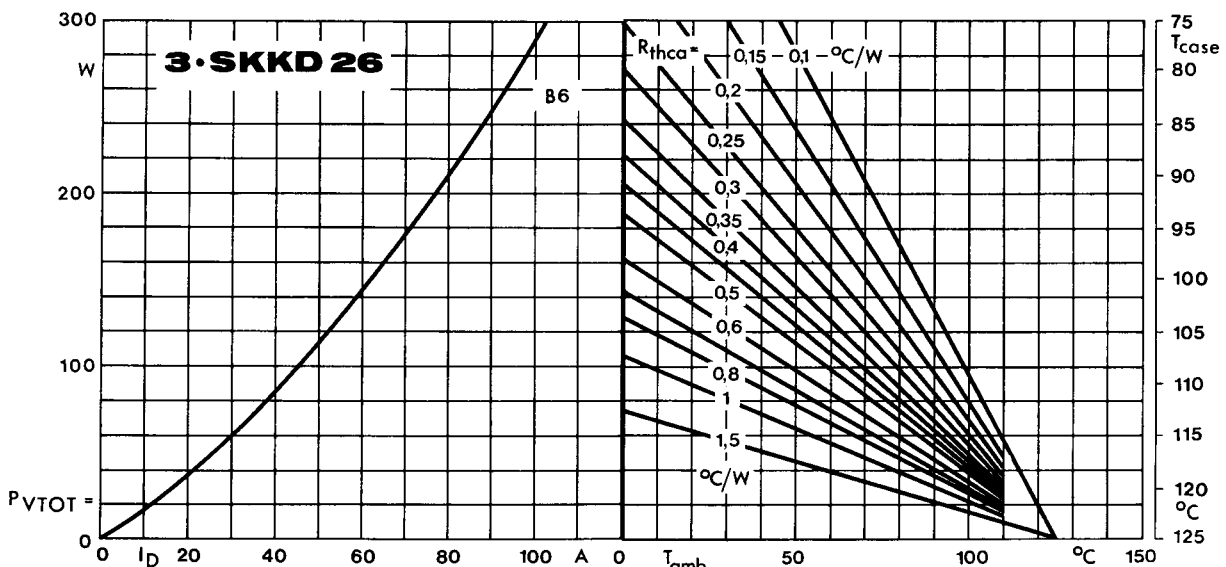


Fig. 13 b Power dissipation of three modules vs. direct current and case temperature

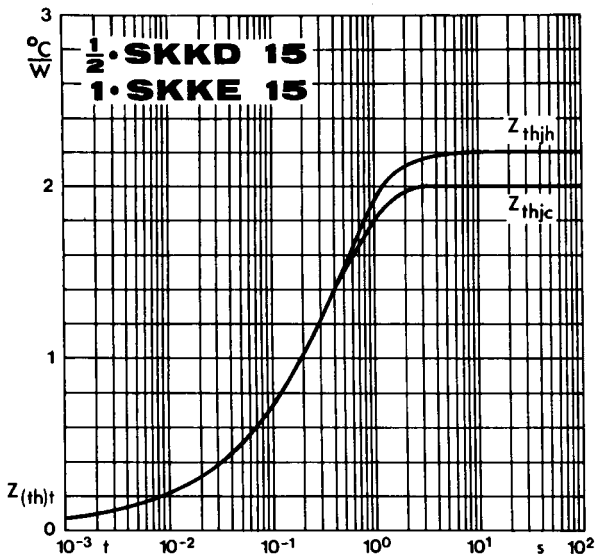


Fig. 14 a Transient thermal impedance vs. time

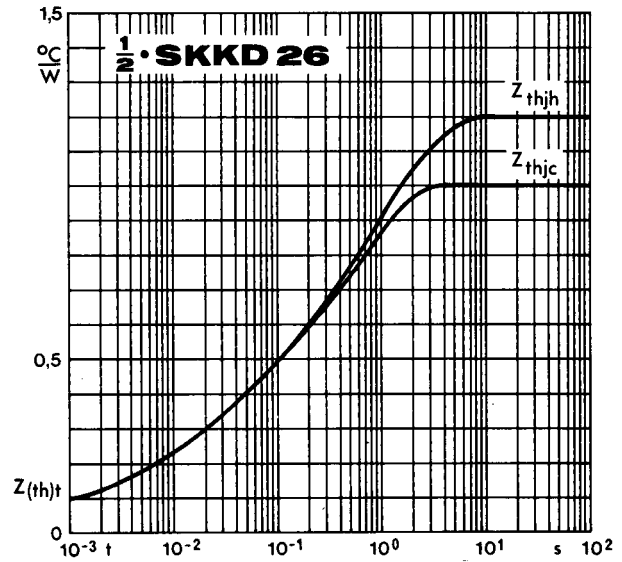


Fig. 14 b Transient thermal impedance vs. time

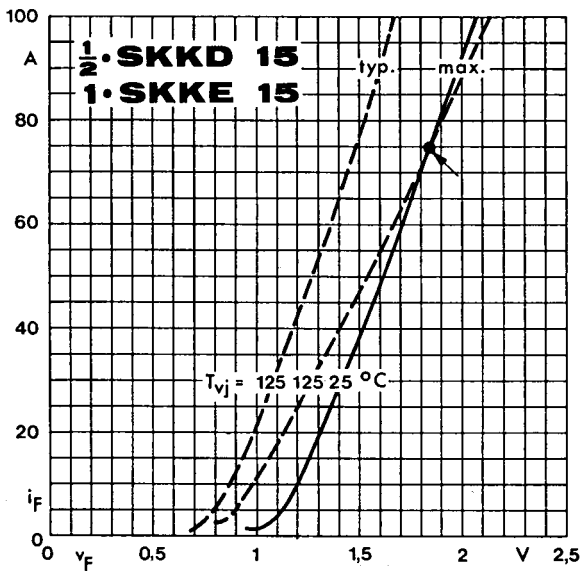


Fig. 15 a Forward characteristics

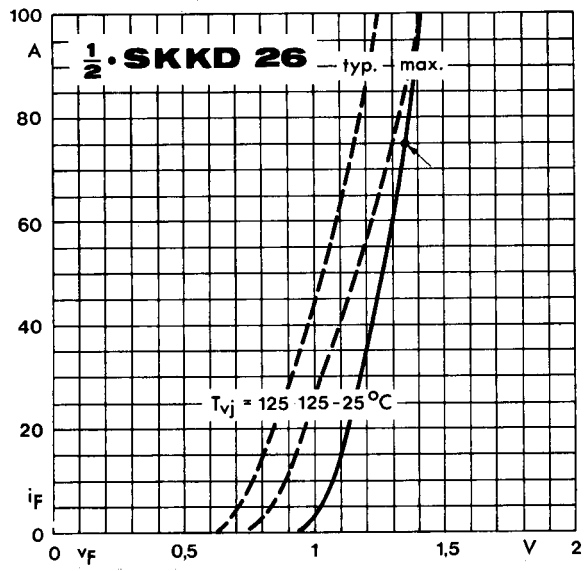


Fig. 15 b Forward characteristics

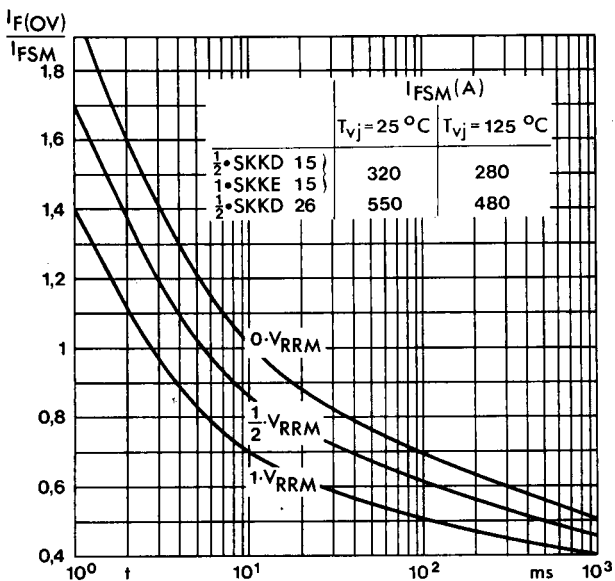


Fig. 16 Surge overload current vs. time

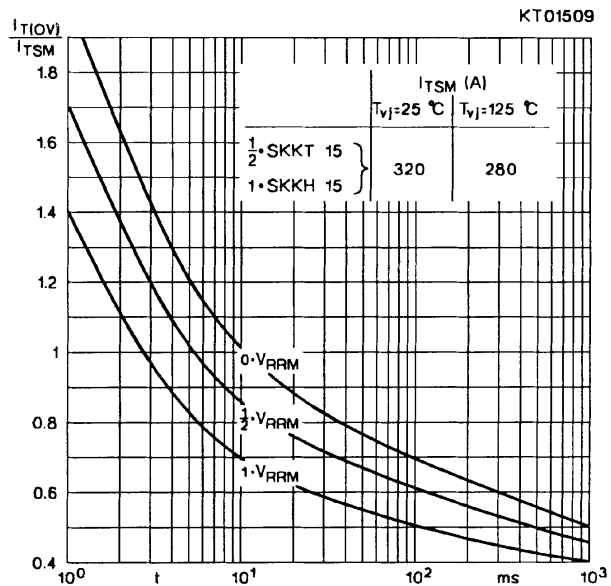
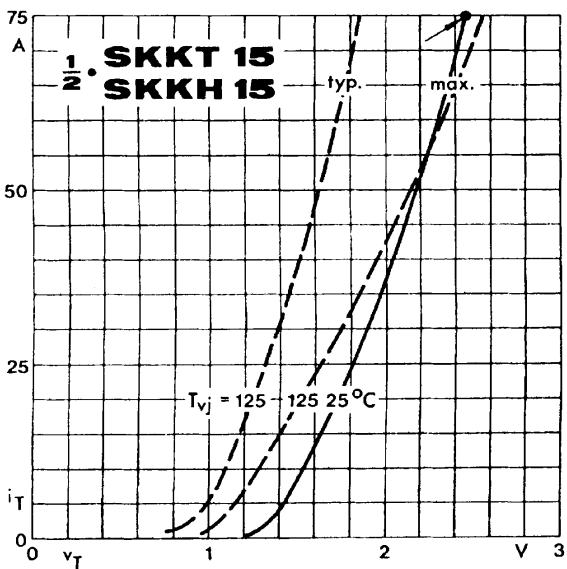


Fig. 8 On-state characteristics

Fig. 9 Surge overload current vs. time

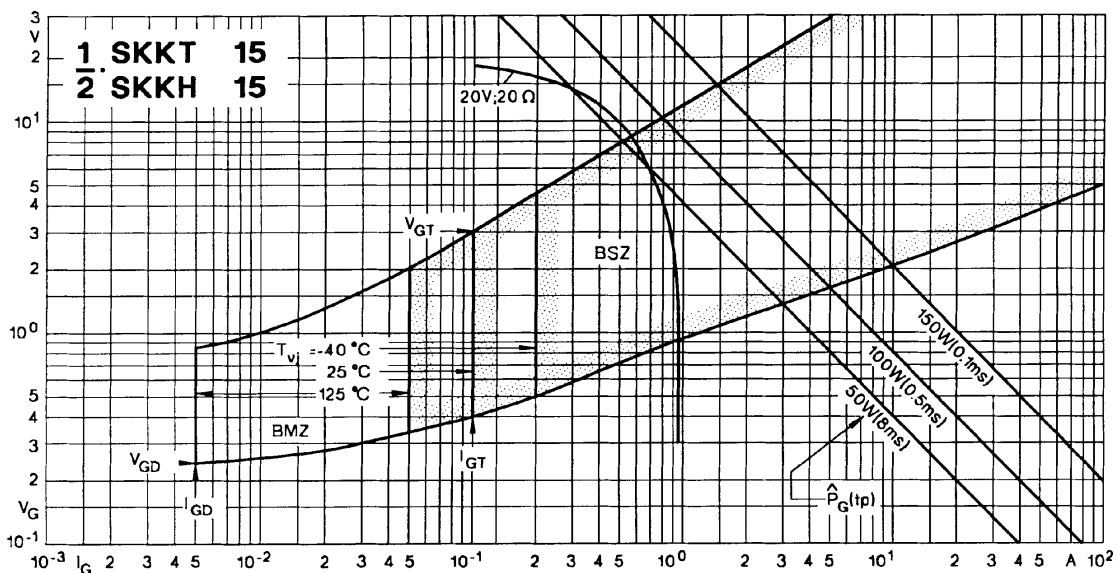
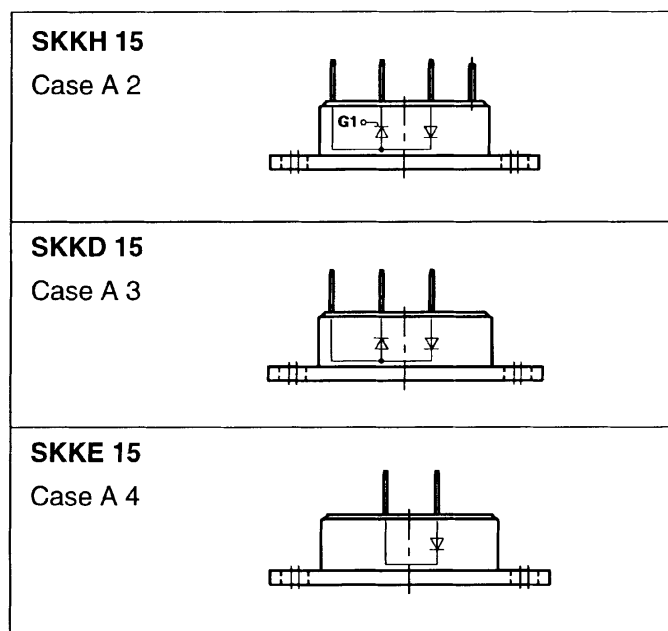
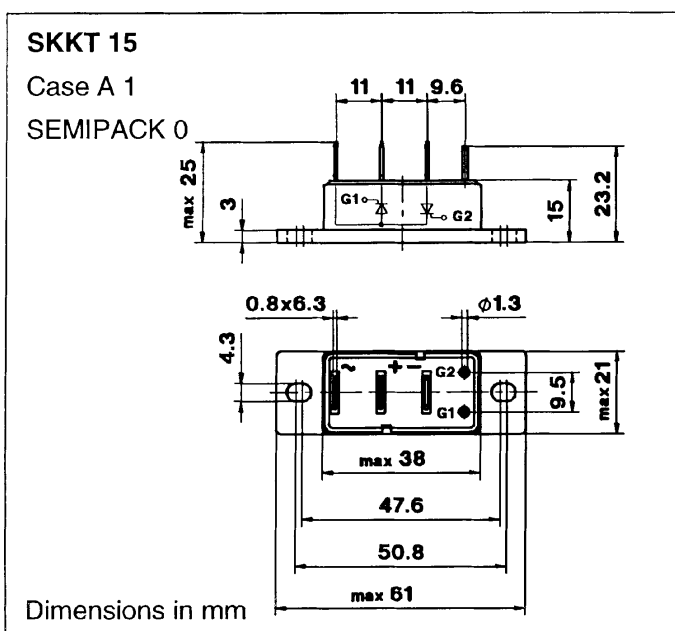


Fig. 10 Gate trigger characteristics



## SKKT 19 ... 105

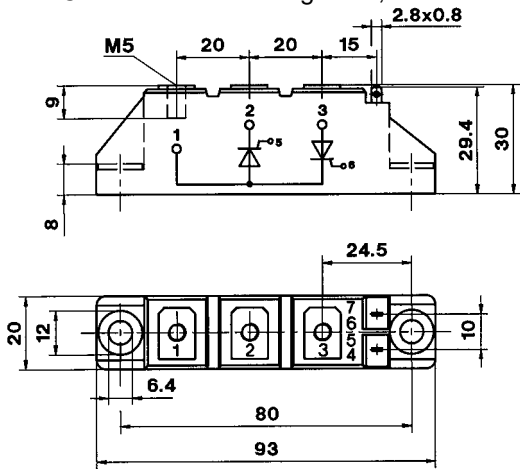
Case A 5

IEC 192-2: A 77 A

JEDEC: TO-240 AA

SEMIPACK® 1

UL recognized, file no. E 63 532



Dimensions in mm

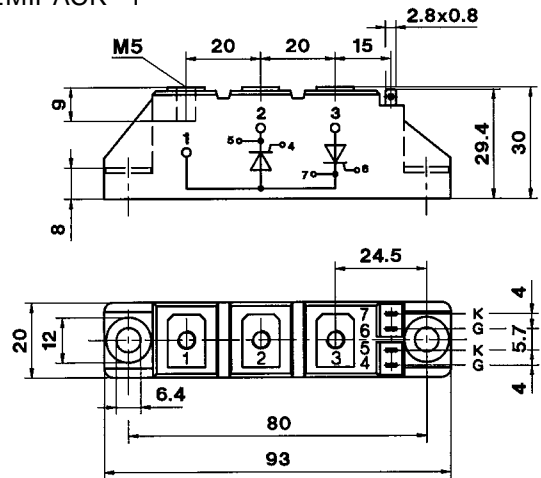
## SKKT 20/ ... 106/

Case A 46

IEC 192-2: A 77 A

JEDEC: TO-240 AA

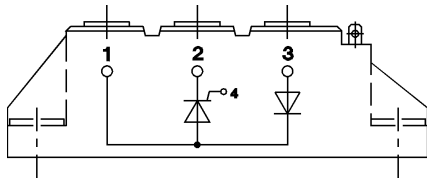
SEMIPACK® 1



Dimensions in mm

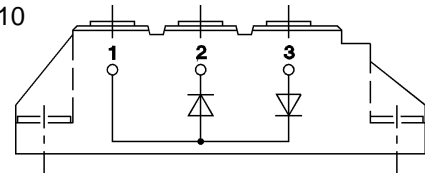
## SKKH 26 ... 105

Case A 6



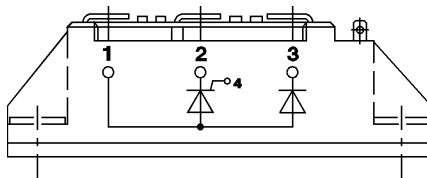
## SKKD 26 ... 100

Case A 10



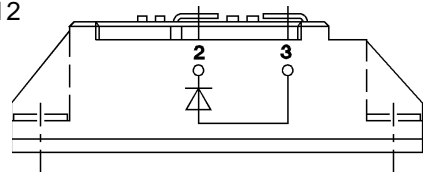
## SKNH 56 ... 91

Case A 7



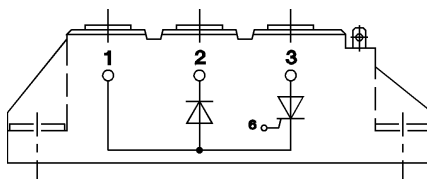
## SKKE 81

Case A 12



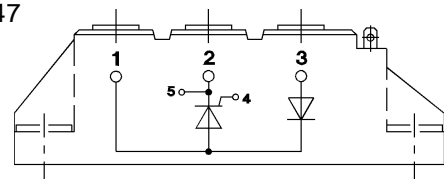
## SKKL 56 ... 105

Case A 9



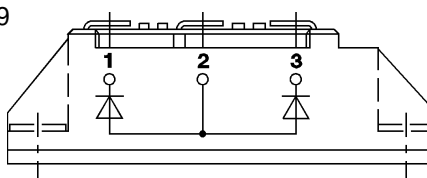
## SKKH 27 ... 106

Case A 47



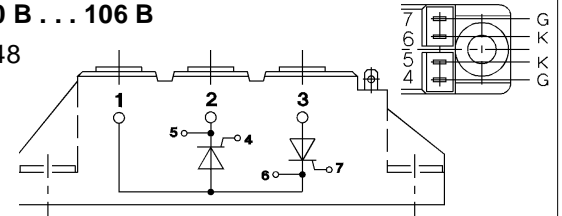
## SKND 46 ... 81

Case A 19



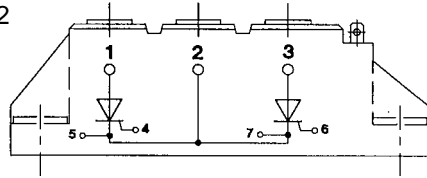
## SKKT 20 B ... 106 B

Case A 48



## SKMT 92

Case A 72



## SKKL 42 ... 106

Case A 59

