SKKD 26

SEMIPACK® 1

Rectifier Diode Modules

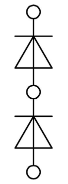
SKKD 26

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



SKKD

V_{RSM} V	V_{RRM} V	I_{FRMS} = 60 A (maximum value for continuous operation) I_{FAV} = 26 A (sin. 180; T_c = 93 °C)		
1300	1200	SKKD 26/12		
1500	1400	SKKD 26/14		
1700	1600	SKKD 26/16		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 85 (100) °C	31 (21)	A
I_D	P3/120; T_a = 45 °C; B2 / B6	44 / 48	A
	P3/180; T_a = 45 °C; B2 / B6	53 / 59	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	550	A
	T_{vj} = 125 °C; 10 ms	480	A
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	1500	A²s
	T_{vj} = 125 °C; 8,3 ... 10 ms	1150	A²s
V_F	T_{vj} = 25 °C; I_F = 75 A	max. 1,35	V
$V_{(TO)}$	T_{vj} = 125 °C	max. 0,85	V
r_T	T_{vj} = 125 °C	max. 6	mΩ
I_{RD}	T_{vj} = 125 °C; V_{RD} = V_{RRM}	max. 3	mA
$R_{th(j-c)}$	per diode / per module	1 / 0,5	K/W
$R_{th(c-s)}$	per diode / per module	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 heatsink	5 ± 15 %	Nm
M_t	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case		A 10	

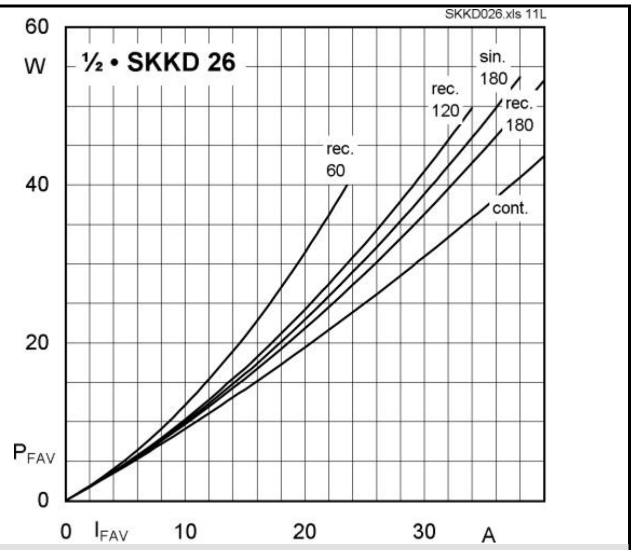


Fig. 11L Power dissipation per diode vs. forward current

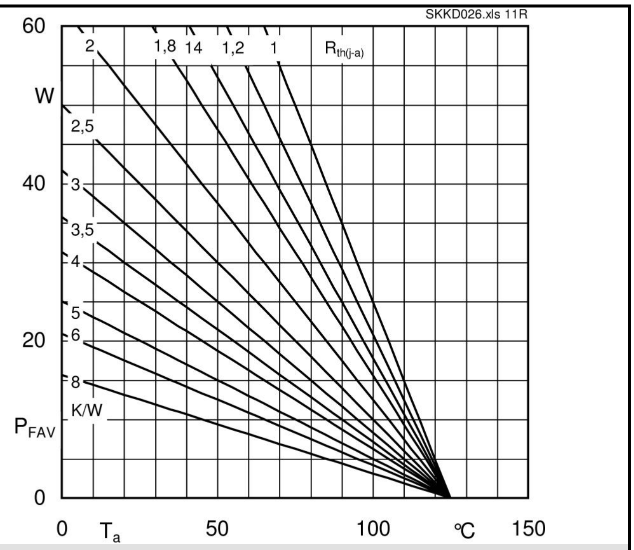


Fig. 11R Power dissipation per diode vs. ambient temperature

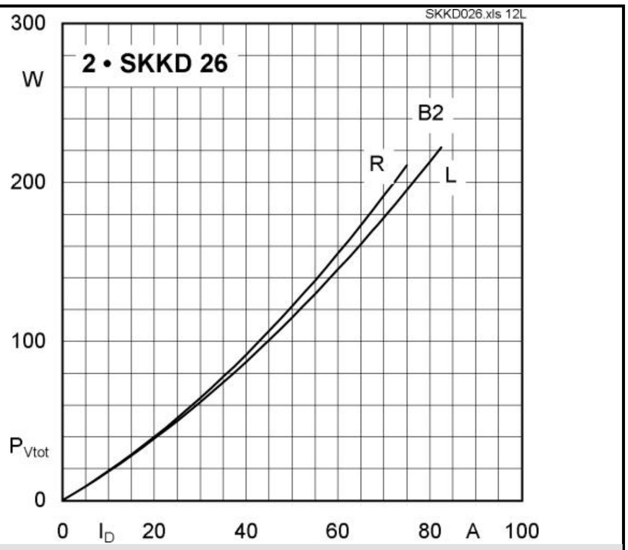


Fig. 12L Power dissipation of two modules vs. direct current

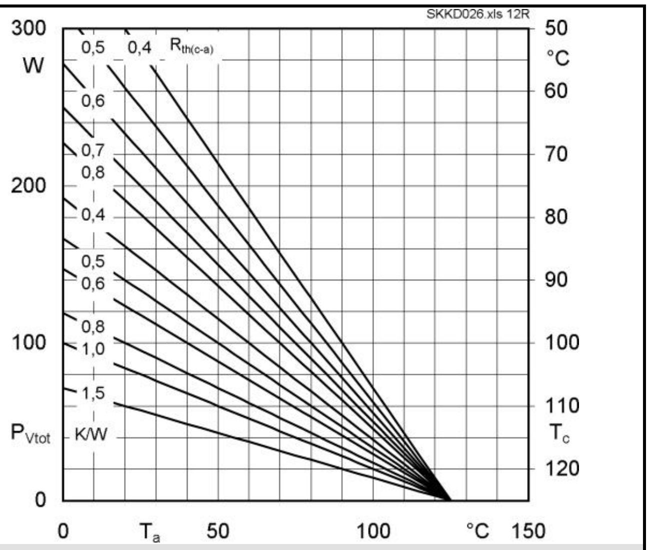


Fig. 12R Power dissipation of two modules vs. case temperature

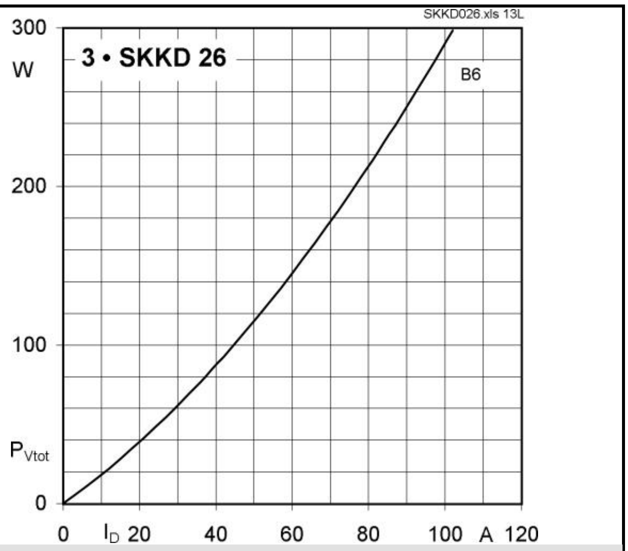


Fig. 13L Power dissipation of three modules vs. direct current

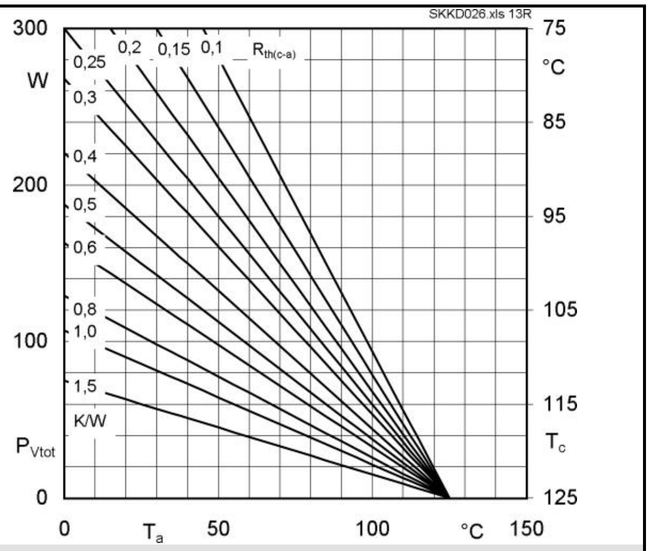


Fig. 13R Power dissipation of three modules vs. case temperature

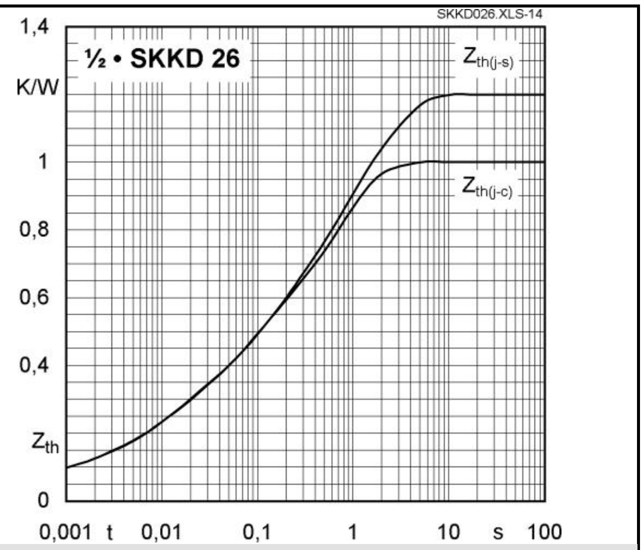


Fig. 14 Transient thermal impedance vs. time

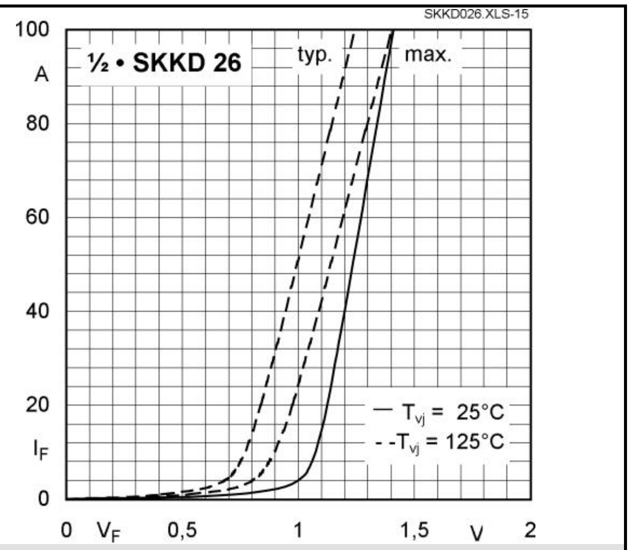


Fig. 15 Forward characteristics

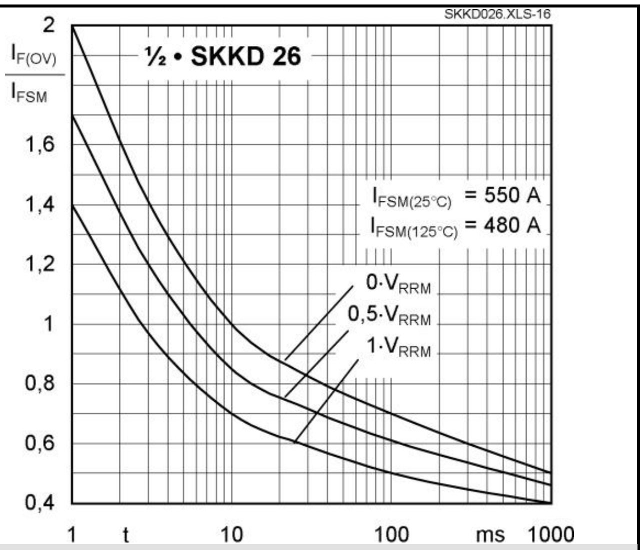
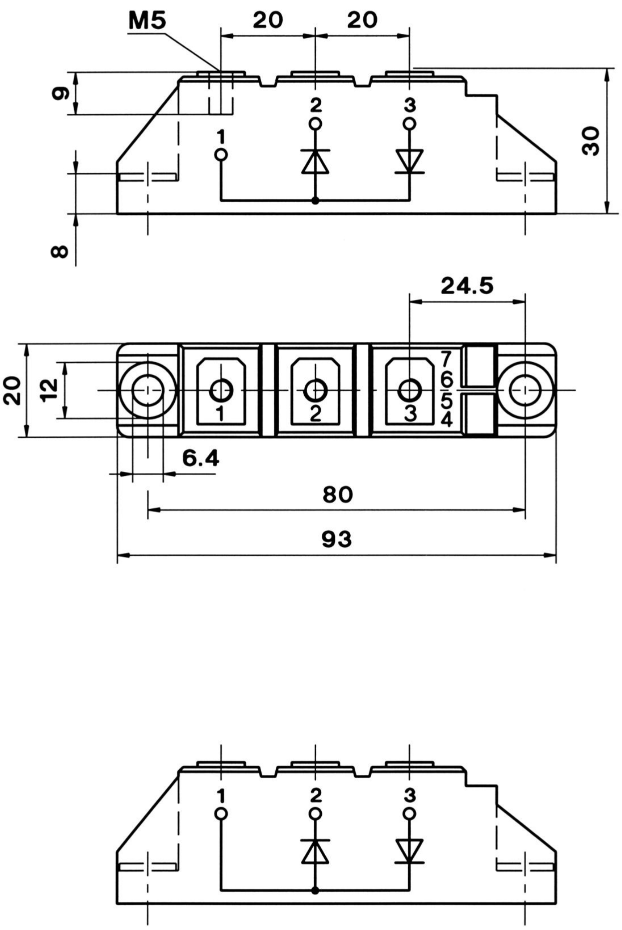


Fig. 16 Surge overload current vs. time

Dimensions in mm



Case A 10