

SEMIPACK® 3 Rectifier Diode Modules

SKKD 260



V_{RSM}	V_{RRM}	I_{FRMS} (maximum values for continuous operation)
		410 A
		I_{TAV} (sin. 180; $T_{case} = 85\text{ °C}$)
V	V	260 A
900	800	SKKD 260/08
1300	1200	SKKD 260/12
1500	1400	SKKD 260/14
1700	1600	SKKD 260/16
2100	2000	SKKD 260/20 H4³⁾
2300	2200	SKKD 260/22 H4³⁾

Symbol	Conditions	SKKD 260	Units	
I_{FAV}	sin. 180; $T_{case} = 85\text{ °C}$	260	A	
I_D	B2/B6			
	$T_{amb} = 35\text{ °C}$;	280 / 320	A	
	P 3/180 F	490 / 655	A	
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms	11 000	A	
	$T_{vj} = 130\text{ °C}$; 10 ms	10 000	A	
i^2t	$T_{vj} = 25\text{ °C}$; 8,3 ... 10 ms	605 000	A ² s	
	$T_{vj} = 130\text{ °C}$; 8,3 ... 10 ms	500 000	A ² s	
I_{RD}	$T_{vj\ max.}$; $V_{RD} = V_{RRM}$	15	mA	
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 750\text{ A}$	max. 1,25	V	
$V_{(TO)}$	$T_{vj} = 130\text{ °C}$	0,90	V	
r_T	$T_{vj} = 130\text{ °C}$	0,37	mΩ	
R_{thjc}	cont.	per diode / per module	0,14 / 0,07	°C/W
	sin. 180	per diode / per module	0,15 / 0,075	°C/W
R_{thch}		per diode / per module	0,04 / 0,02	°C/W
T_{vj}		- 40 ... + 130	°C	
T_{stg}		- 40 ... + 130	°C	
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s/1 min	3600 / 3000	V~	
M_1	to heatsink	SI units	$5 \pm 15\%$ ¹⁾	Nm
		US units	$44 \pm 15\%$ ¹⁾	lb.in.
M_2	to terminals	SI units	$9 \pm 15\%$ ²⁾	Nm
		US units	$80 \pm 15\%$ ²⁾	lb.in.
a			$5 \cdot 9,81$	m/s ²
w	approx.		750	g
Case			A 78a	

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts
- 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

- 1) See the assembly instructions
 2) The screws must be lubricated
 3) Visol 1 s/ 1 min. = 4800/4000 V~

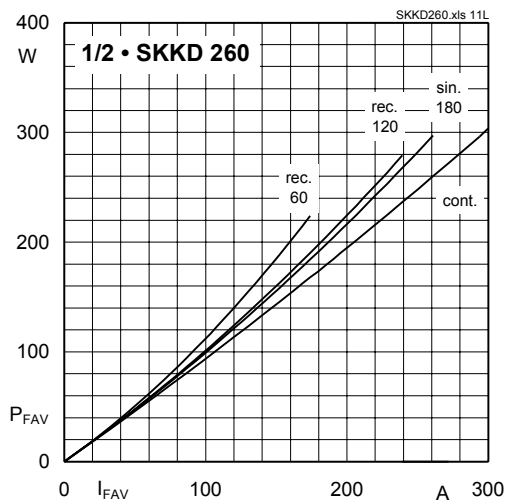


Fig. 11L Power dissipation per diode vs. on-state current

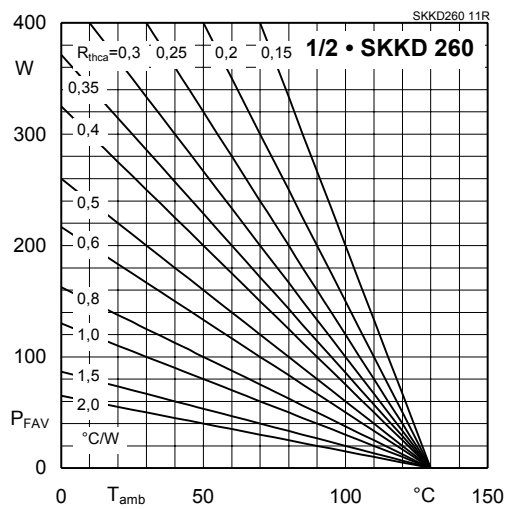


Fig. 11R Power dissipation per diode vs. ambient temp.

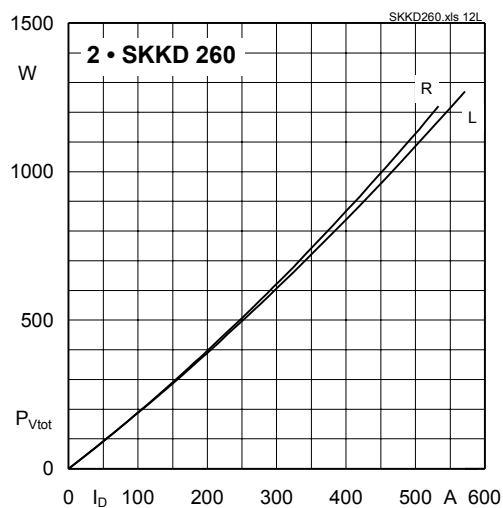


Fig. 12L Power dissipation of two modules vs. rms current

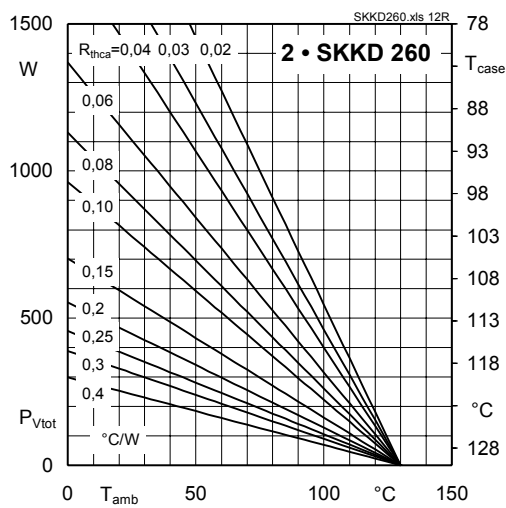


Fig. 12R Power dissipation of two modules vs. case temp.

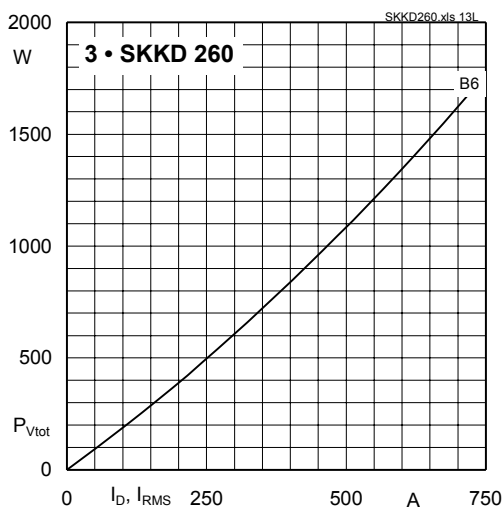


Fig. 13L Power dissipation of three modules vs. direct current

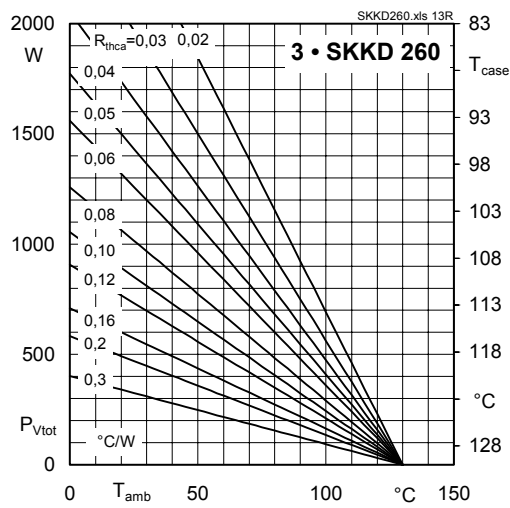


Fig. 13R Power dissipation of three modules vs. case temp.

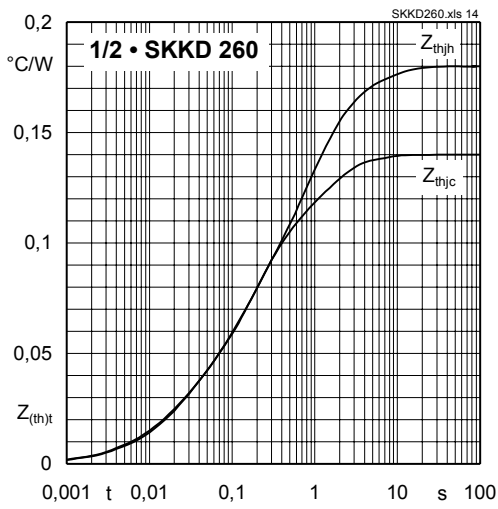


Fig. 14 Transient thermal impedance vs. time

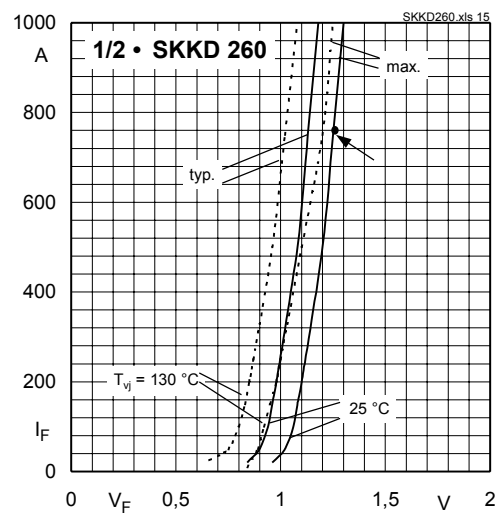


Fig. 15 Forward characteristics

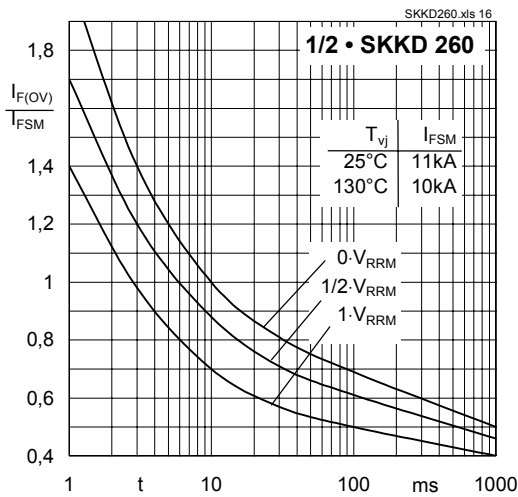
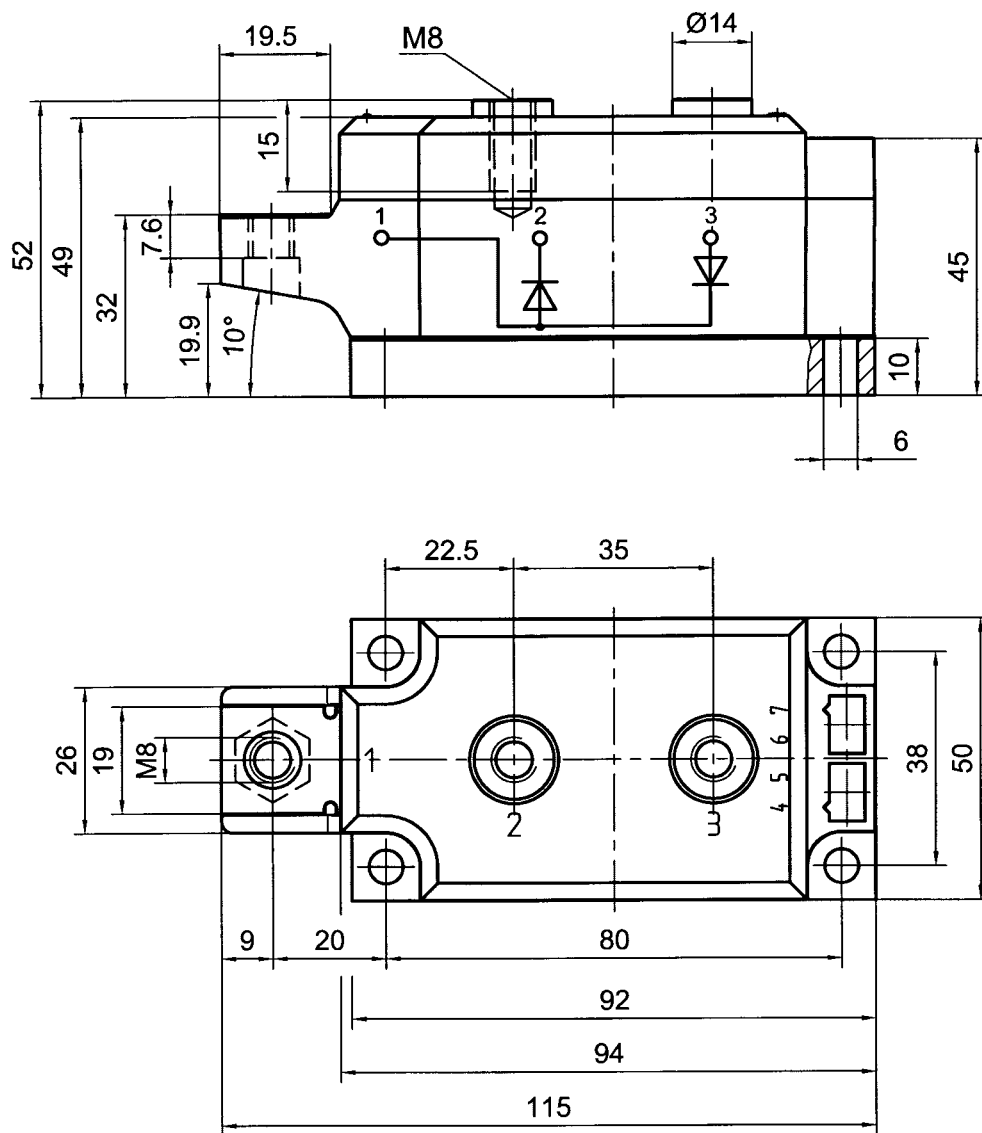


Fig. 16 Surge overload current vs. time

SKKD 260

Case A 78 a
SEMIPACK® 3

UL recognition, file no. E 63 532



Dimensions in mm