



SEMIPACK® 3

Rectifier Diode Modules

SKKD 260

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts
- UL recognized, file no. E 63 532

Typical Applications*

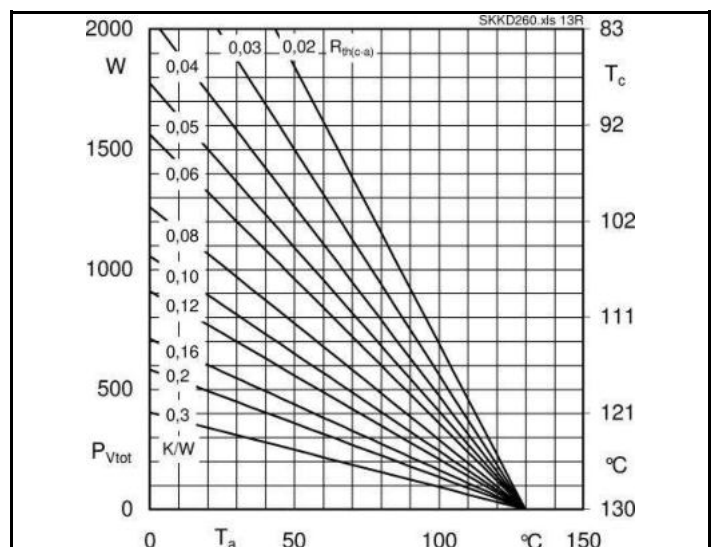
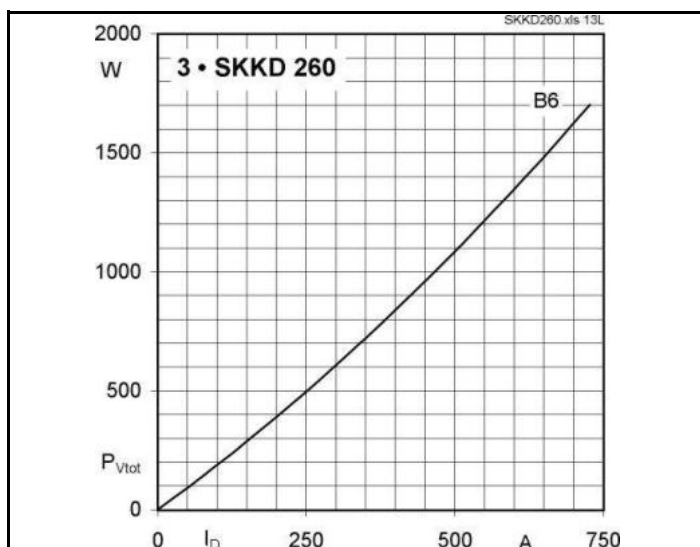
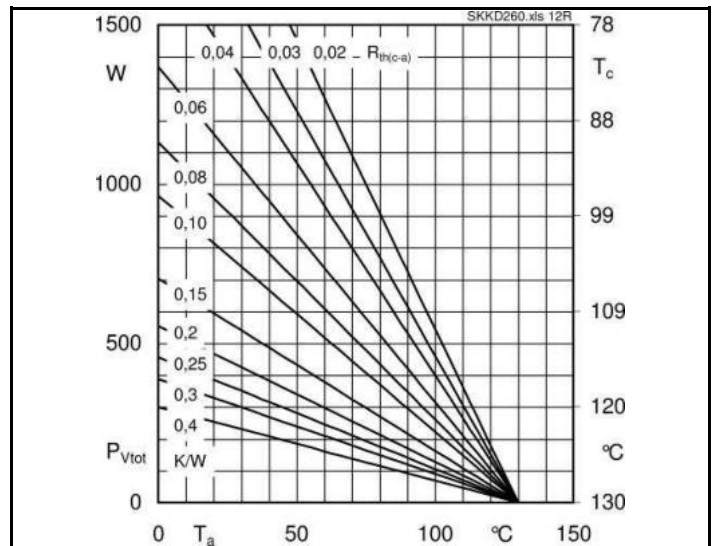
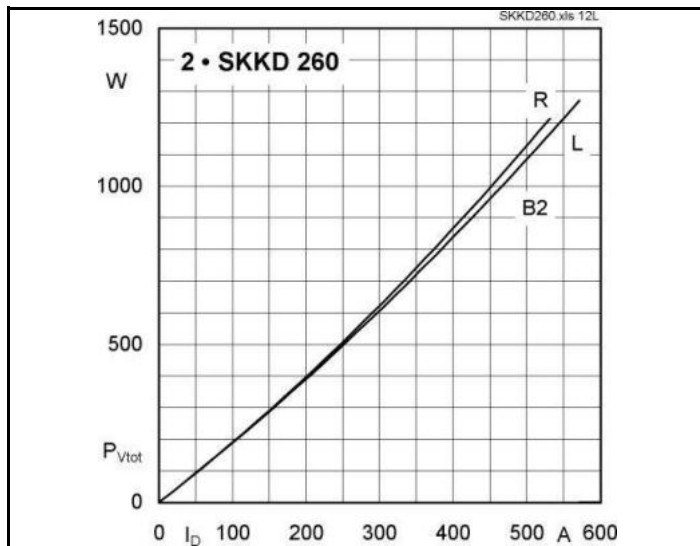
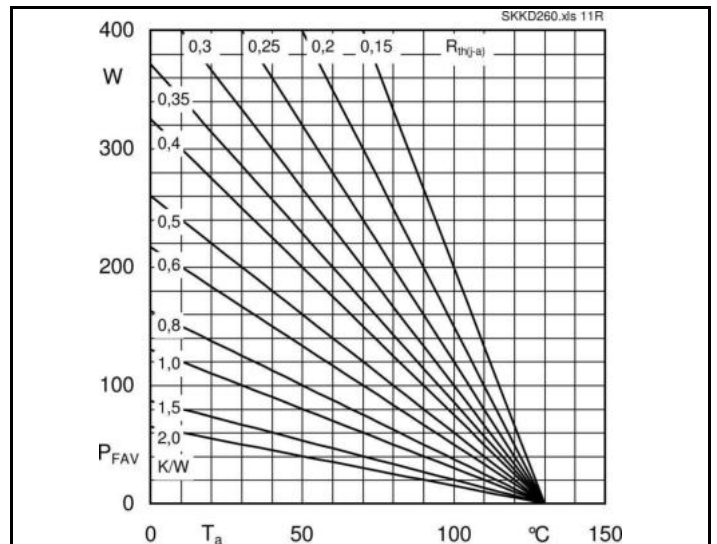
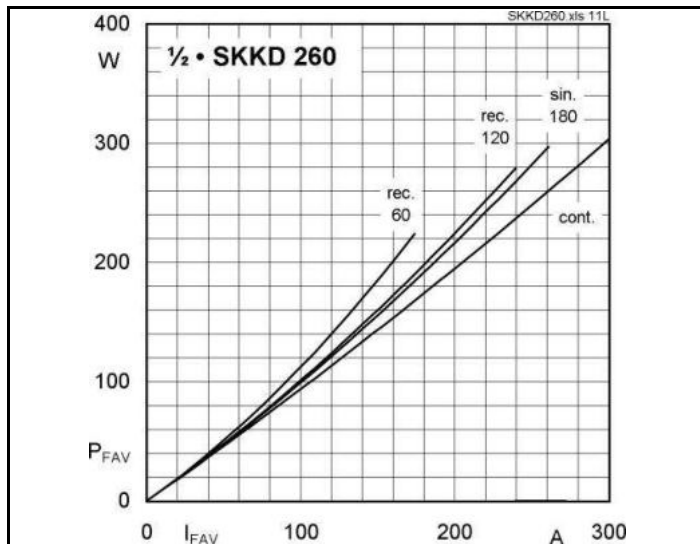
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 410$ A (maximum value for continuous operation) $I_{FAV} = 260$ A (sin. 180; $T_c = 85$ °C)		
900	800	SKKD 260/08		
1300	1200	SKKD 260/12		
1700	1600	SKKD 260/16		
2100	2000	SKKD 260/20H4		
2300	2200	SKKD 260/22H4		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85$ (100) °C	260 (185)	A
I_D	P3/180F; $T_a = 35$ °C; B2 / B6	280 / 320	A
	P16/200F; $T_a = 35$ °C; B2 / B6	490 / 655	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	11000	A
	$T_{vj} = 130$ °C; 10 ms	10000	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	605000	A²s
	$T_{vj} = 130$ °C; 8,3 ... 10 ms	500000	A²s
V_F	$T_{vj} = 25$ °C; $I_F = 750$ A	max. 1,25	V
$V_{(TO)}$	$T_{vj} = 130$ °C	max. 0,9	V
r_T	$T_{vj} = 130$ °C	max. 0,37	mΩ
I_{RD}	$T_{vj} = 130$ °C; $V_{RD} = V_{RRM}$	max. 10	mA
$R_{th(j-c)}$	cont.; per diode / per module	0,14 / 0,07	K/W
	sin. 180; per diode / per module	0,15 / 0,075	K/W
$R_{th(c-s)}$	per diode / per module	0,04 / 0,02	K/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~
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKK ...H4	4800 / 4000	V~
M_s	to heatsink	5 ± 15 %	Nm
M_t	to terminals	9 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	600	g
Case		A 78b	



SKKD



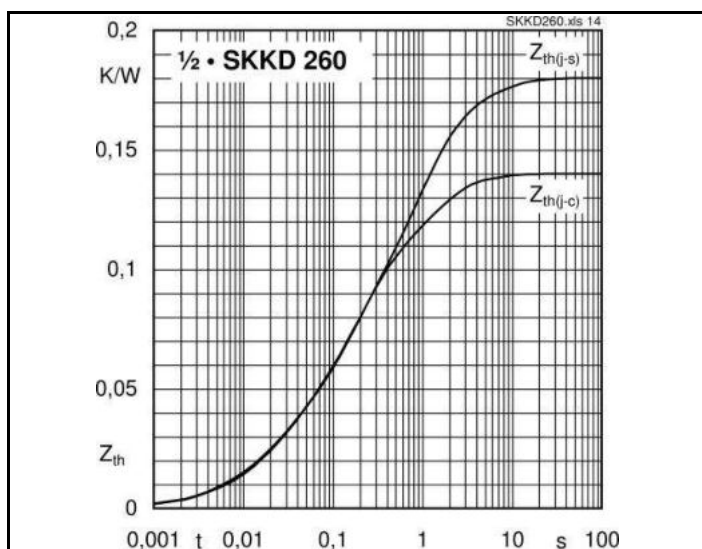


Fig. 14 Transient thermal impedance vs. time

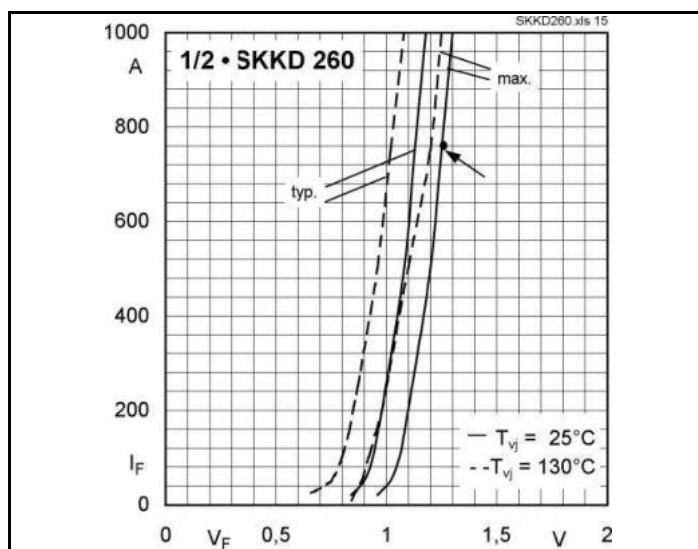


Fig. 15 Forward characteristics

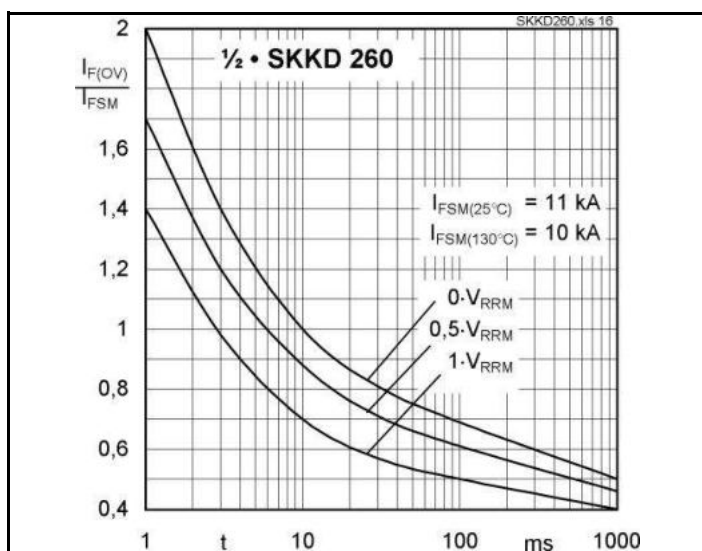
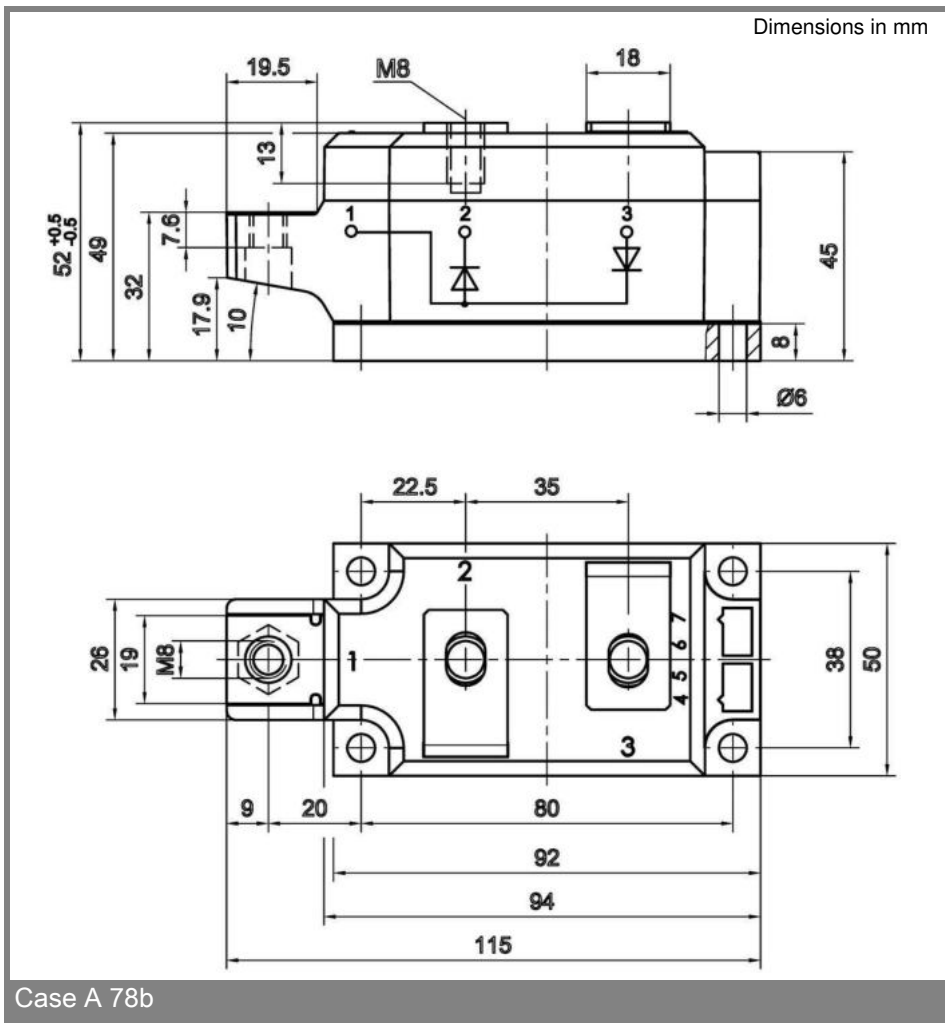


Fig. 16 Surge overload current vs. time



* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our staff.