SEMIKRON

V_{RSM} V	V_{RRM} V	I_{FRMS} (maximum value for continuous operation) 350 A I_{FAV} (sin. 180; T_{case} = 100 °C) 220 A
400	400	**SKND 165/04**
600	600	**SKND 165/06**
800	800	**SKND 165/08**
1200	1200	**SKND 165/12**

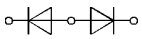
Symbol	Conditions	SKND 165	Units
I_{FAV}	sin. 180; T_{case} = 100 °C	220	A
I_{FSM}	T_{vj} = 25 °C; 10 ms T_{vj} = 150 °C; 10 ms	5000 4000	A A
i^2t	T_{vj} = 25 °C; 8,3...10 ms T_{vj} = 150 °C; 8,3...10 ms	125 000 80 000	A^2s A^2s
I_{RD}	T_{vj} = 25 °C; V_{RD} = V_{RRM} T_{vj} = 150 °C; V_{RD} = V_{RRM}	2 20	mA mA
V_F	T_{vj} = 25 °C; I_F = 500 A; max.	1,45	V
$V_{(TO)}$	T_{vj} = 150 °C	0,85	V
r_T	T_{vj} = 150 °C	1,2	mΩ
R_{thjc} R_{thch}	} per diode/per module	0,15 / 0,075 0,10/0,05	°C/W °C/W
T_{vj}		– 40 ... +150	°C
T_{stg}		– 40 ... +125	°C
V_{isol}	a. c. 50 Hz; r.m.s; 1 s/1 min	3600 / 3000	V~
M_1 M_2	to heatsink SI (US) units to terminals SI (US) units	5 (44 lb.in.) ± 15 %[1)] 5 (44 lb.in.) ± 15 %	Nm Nm
a		5 · 9,81	m/s^2
w	approx.	250	g
Case	→ page B 1 – 96	A 52	

[1)] see assembly instructions

SEMIPACK® 2

Rectifier Diode Modules

SKND 165



SKND

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. E63 532

Typical Applications

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

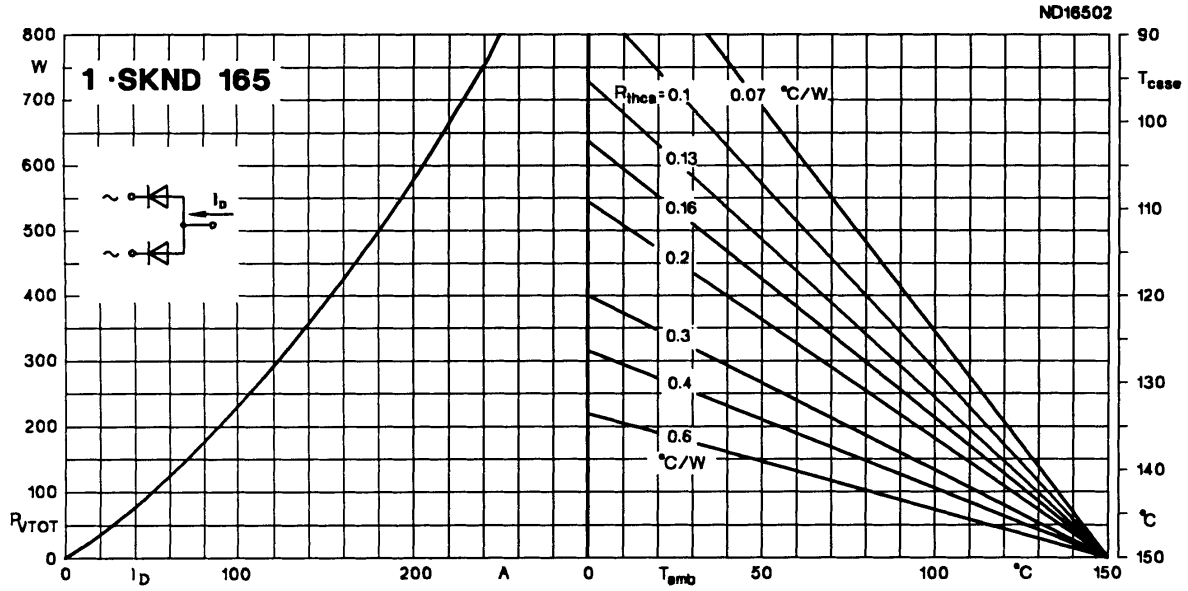


Fig. 12 Power dissipation of two modules vs. direct current and case temperature

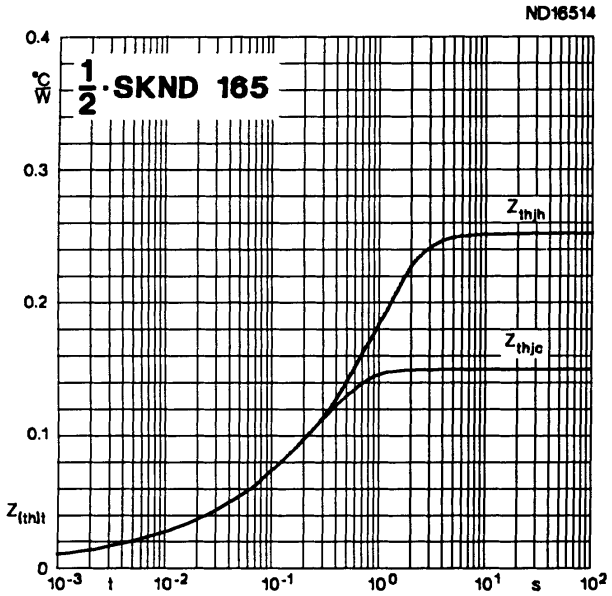


Fig. 14 Transient thermal impedance vs. time

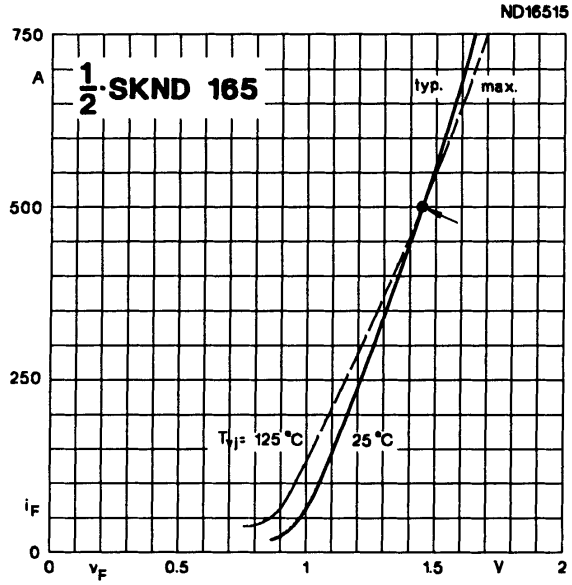


Fig. 15 Forward characteristics

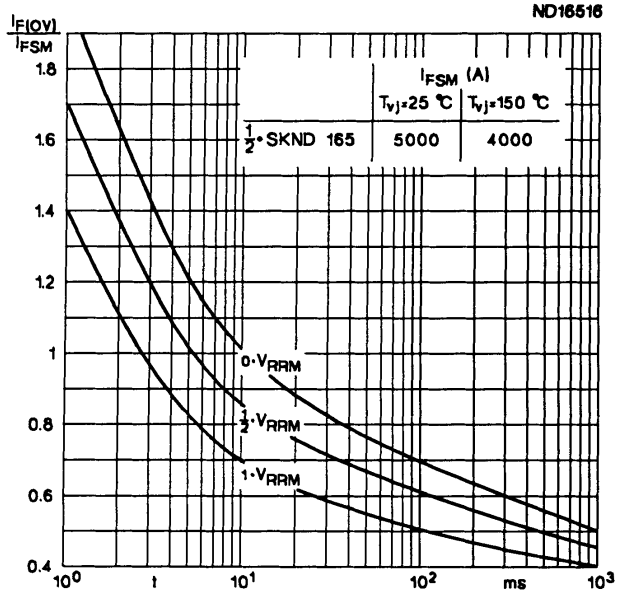
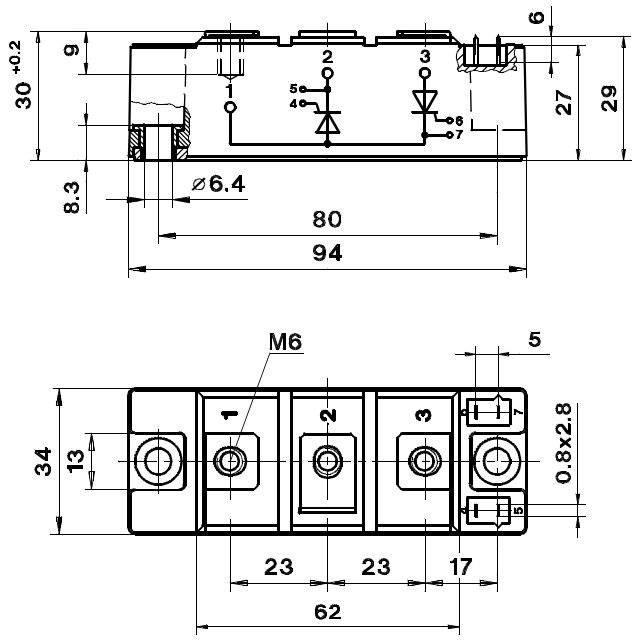


Fig. 16 Surge overload current vs. time

SKKT 122, 132, 162

Case A 21

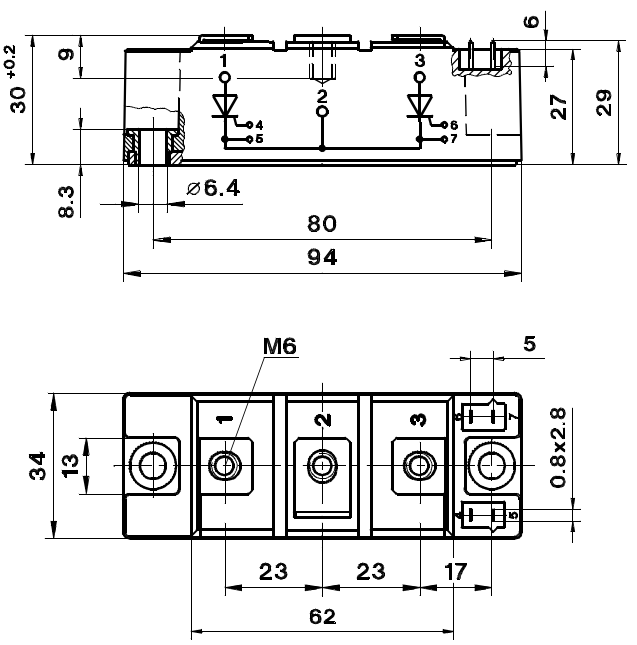
SEMIPACK® 2 UL recognized, file no. E 63 532



SKMT 132

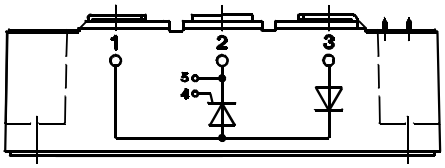
Case A 50

SEMIPACK® 2 UL recognized, file no. E 63 532



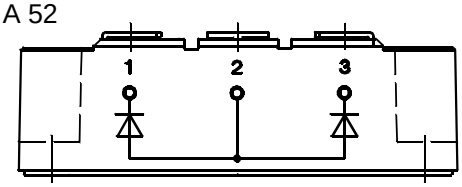
SKKH 122, 132, 162

Case A 22



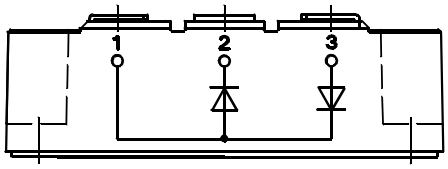
SKND 165

Case A 52



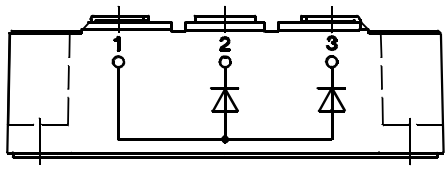
SKKD 162

Case A 23



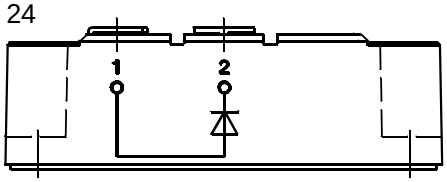
SKND 162

Case A 57



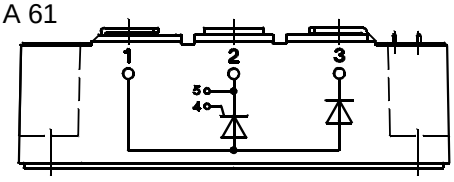
SKKE 162

Case A 24



SKNH 132

Case A 61



Dimensions in mm

Dimensions in mm

