V_{RSM} V_{RRM} V	I_{FAV} (sin. 180; T_{case} = 100 °C) 430 A
1200	**SKKE 400/12**
1600	**SKKE 400/16**
2000	**SKKE 400/20**
2400	**SKKE 400/24** [1]

SEMIPACK® 4 Diode Modules

SKKE 400

SKKE

Symbol	Conditions	SKKE 400	Units
I_{FAV}	sin. 180; T_{case} = 85 °C	525	A
	100 °C	430	A
I_{FSM}	T_{vj} = 25 °C	12 000	A
	T_{vj} = 150 °C	10 500	A
i^2t	T_{vj} = 25 °C	720 000	A^2s
	T_{vj} = 150 °C	550 000	A^2s
Q_{rr}	T_{vj} = 150 °C; I_{FM} = 500 A	2000	µC
I_{RM}	– di_F/dt = 10 A/µs; V_R = 100 V	100	A
I_{RD}	T_{vj} = 25 °C; V_{RD} = V_{RRM}	4	mA
	T_{vj} = 130 °C; V_{RD} = V_{RRM}	40	mA
V_F	T_{vj} = 25 °C; I_{FM} = 3000 A; max.	1,90	V
V_{TO}	T_{vj} = 150 °C	0,85	V
r_T	T_{vj} = 150 °C	0,35	mΩ
R_{thjc}	cont.	0,090	°C/W
	sin. 180	0,095	°C/W
R_{thch}	per diode = per module	0,02	°C/W
T_{vj}		– 40 ... + 150	°C
T_{stg}		– 40 ... + 130	°C
V_{isol}	a. c. 50 Hz; r.m.s; 1 s/1 min [1]	3600 / 3000	V~
M_1	to heatsink	5 (44 lb. in.) ± 15 %[2]	Nm
M_2	to terminals	17 (150 lb. in.) ± 15 %[3]	Nm
a	SI (US) units	5 · 9,81	m/s^2
w	approx.	950	g
Case	→ page B 1 – 94	A 42	

Features

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

Typical Applications

- Rectifiers

[1] SKKE 400/24: V_{isol} 1 s/1 min. = 4500/3750 V~
[2] See the assembly instructions
[3] The screws must be lubricated

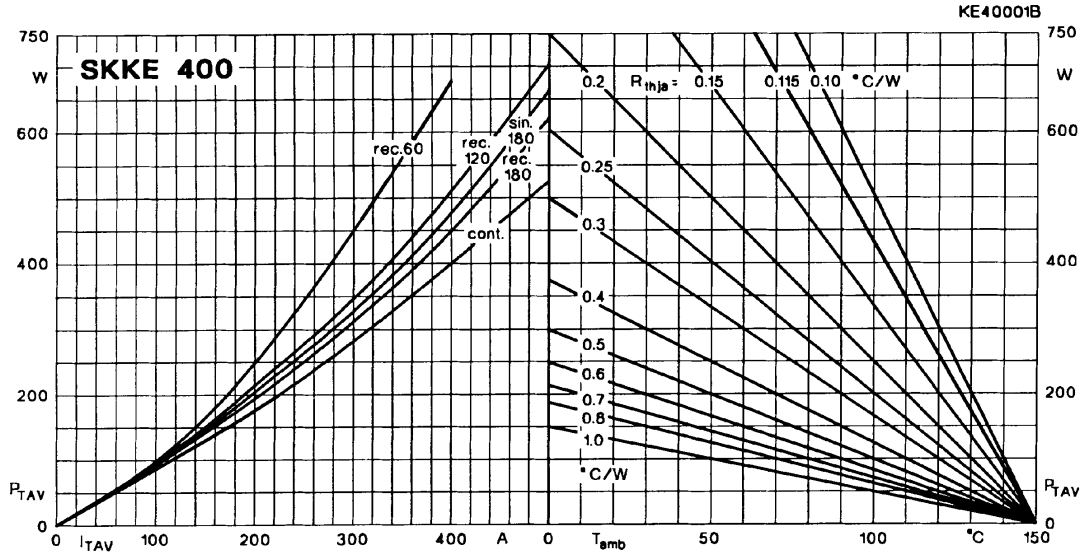

Fig. 11 Power dissipation per diode vs forward current and ambient temperature

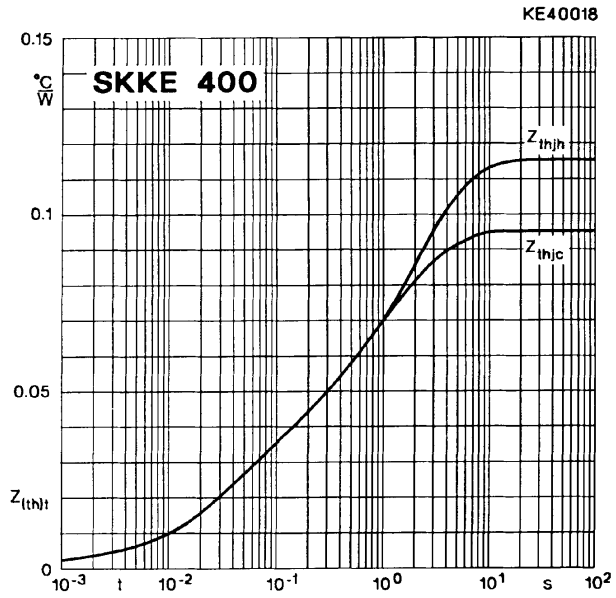

Fig. 14 Transient thermal impedance vs. time

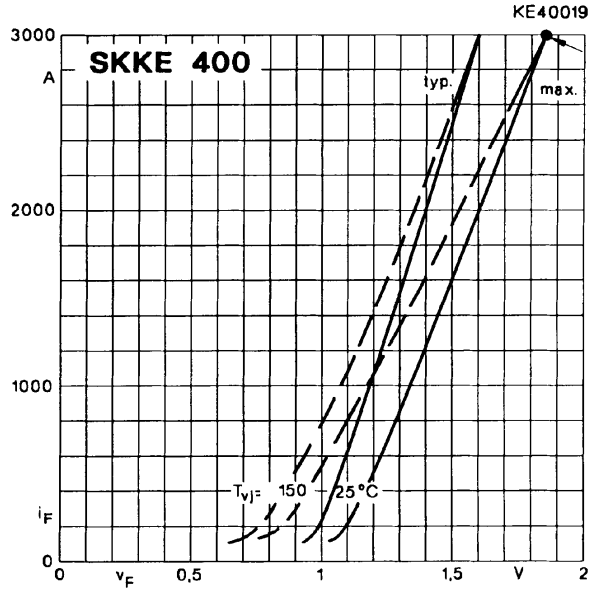

Fig. 15 Forward characteristics

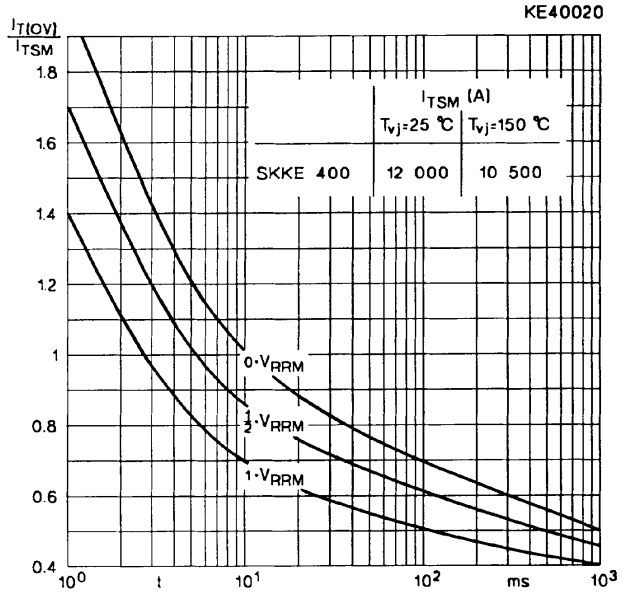

Fig. 20 Surge overload current vs. time

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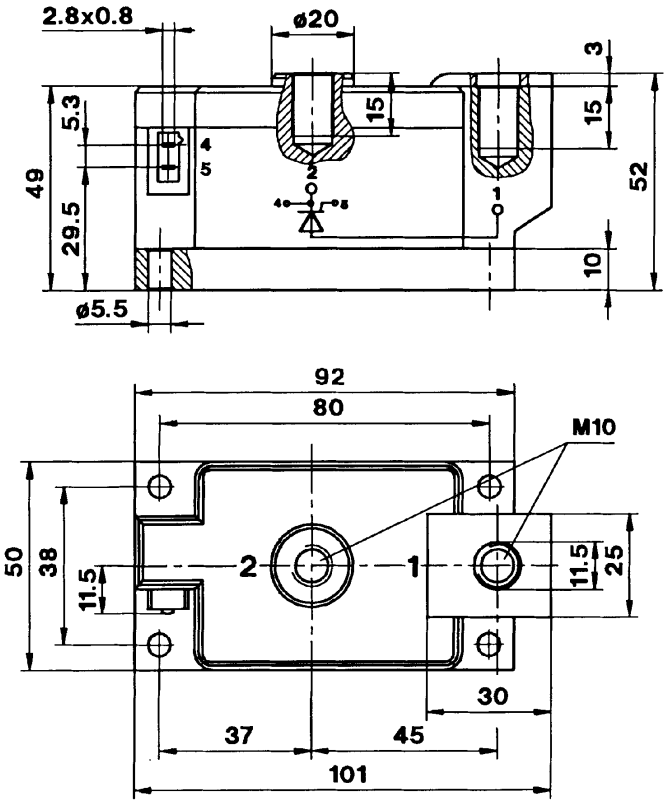
SKET 330
SKET 400

Case A 36

SEMIPACK® 4

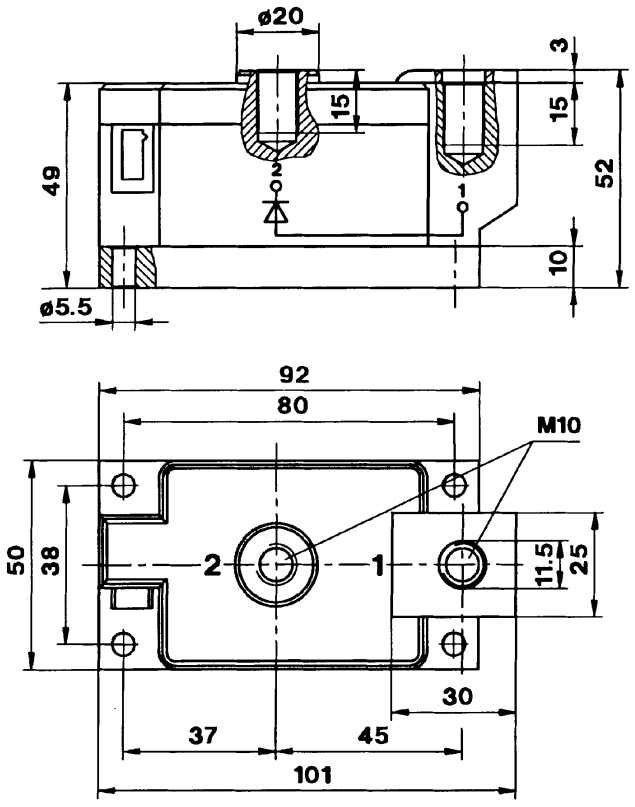


Dimensions in mm

SKKE 400

Case A 42

SEMIPACK® 4



Dimensions in mm

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