

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

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 ² t	T _{vj} = 25 °C	720 000	A ² s
	T _{vj} = 150 °C	550 000	A ² s
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 } per diode = per module	0,095	°C/W
R _{thch}		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 } SI (US) units	5 (44 lb. in.) ± 15 % ²⁾	Nm
M ₂	to terminals }	17 (150 lb. in.) ± 15 % ³⁾	Nm
a		5 · 9,81	m/s ²
w	approx.	950	g
Case	→ page B 1 – 94	A 42	

SEMIPACK® 4

Diode Modules

SKKE 400



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

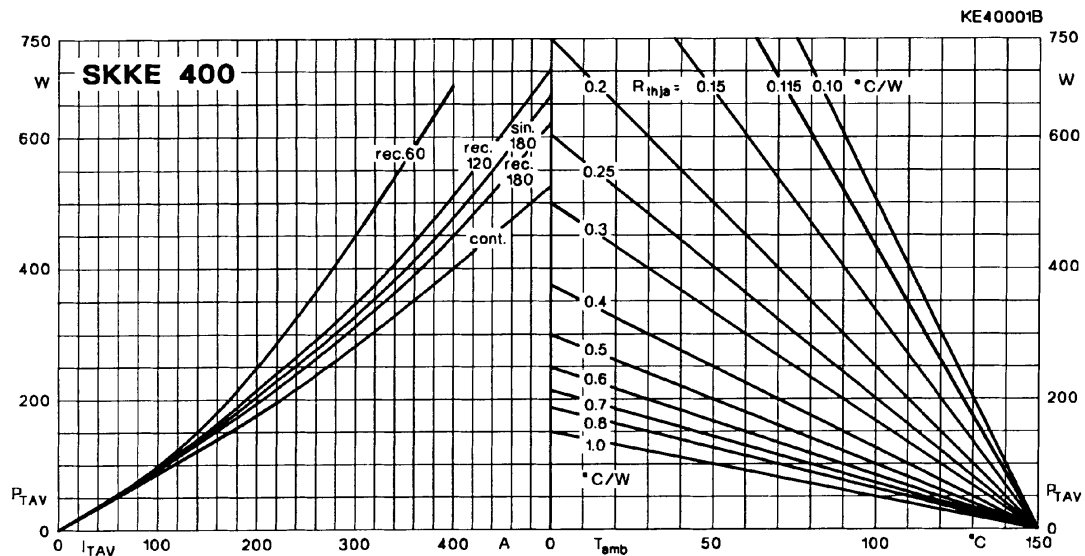


Fig. 11 Power dissipation per diode vs forward current and ambient temperature

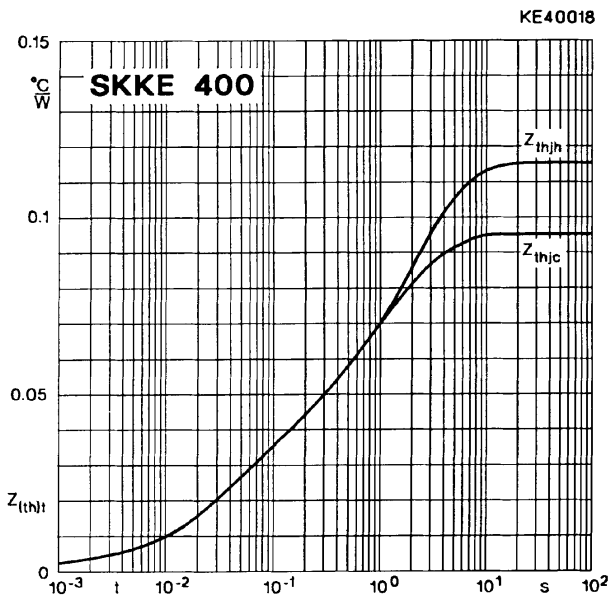


Fig. 14 Transient thermal impedance vs. time

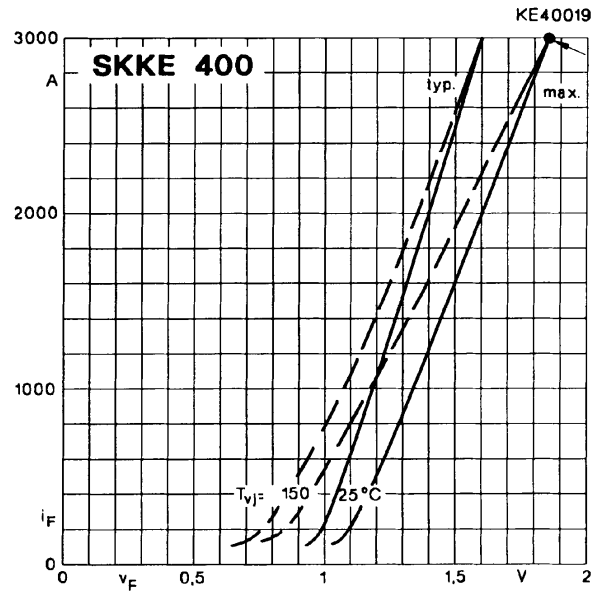


Fig. 15 Forward characteristics

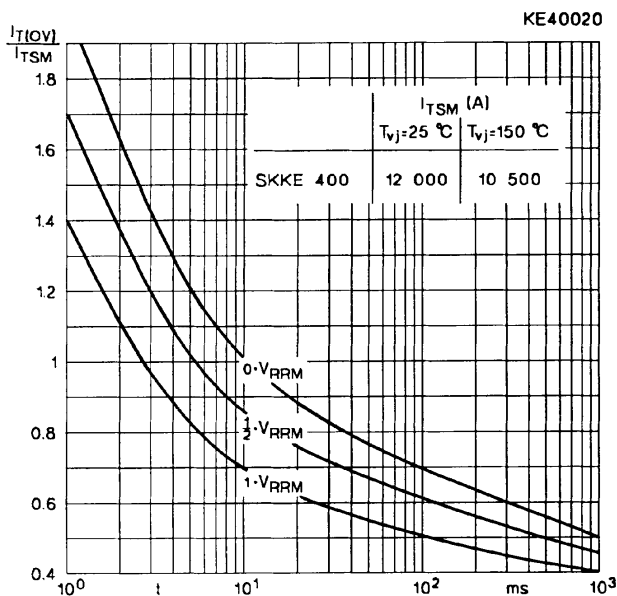
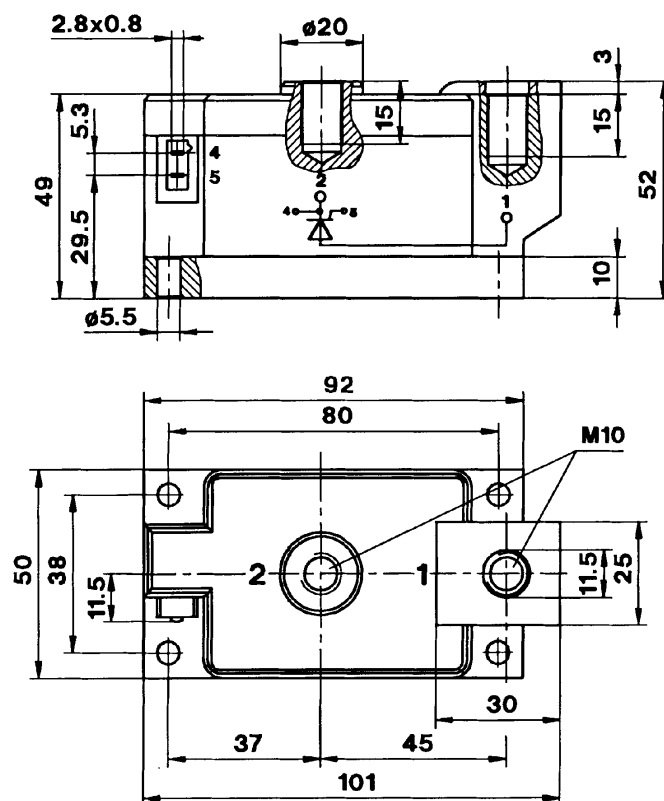


Fig. 20 Surge overload current vs. time

SKET 330
SKET 400

Case A 36

SEMIPACK® 4

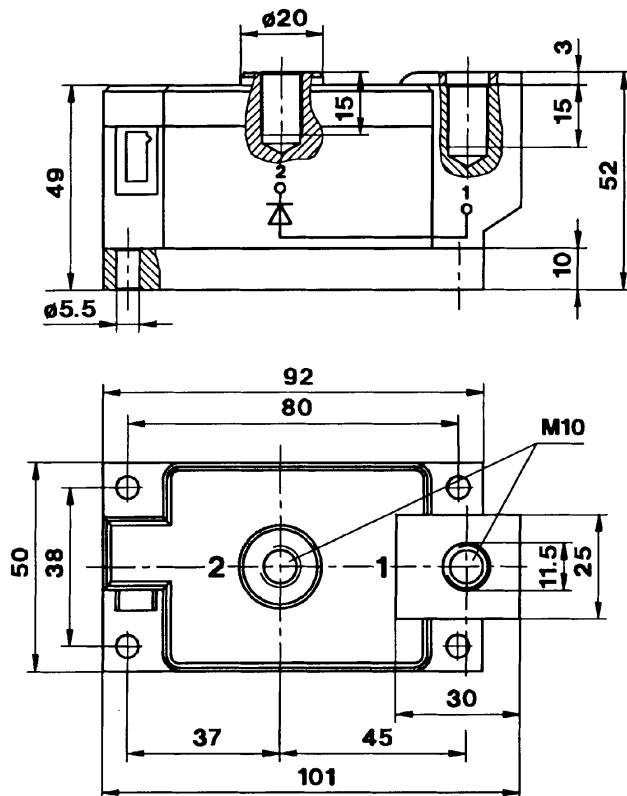


Dimensions in mm

SKKE 400

Case A 42

SEMIPACK® 4



Dimensions in mm