

V _{RSM}	V _{RRM} V _{DRM}	(dv/dt) _{cr}	I _{TRMS} (maximum values for continuous operation)	
			600 A	700 A
V	V	V/μs	I _{TAV} (sin. 180; T _{case} = . . .)	
			380 (68 °C)	440 A (78 °C)
900	800	500	SKET 330/08 D	SKET 400/08 D
1300	1200	1000	SKET 330/12 E	SKET 400/12 E
1500	1400	1000	SKET 330/14 E	SKET 400/14 E
1700	1600	1000	SKET 330/16 E	SKET 400/16 E
1900	1800	1000	SKET 330/18 E	SKET 400/18 E
2100	2000	1000	SKET 330/20 E	–
2300	2200	1000	SKET 330/22 E	–

Symbol	Conditions	SKET 330	SKET 400	Units
I _{TAV}	sin. 180; (T _{case} = . . .)	330 (78)	400 (84)	A °C
I _D	B2/B6 T _{amb} = 35 °C; P 16/300 F	530 / 665	700 / 880	A
I _{RMS}	W1/W3 T _{amb} = 35 °C; P 16/400 F	685 / 3 x 550	905 / 3 x 720	A
I _{TSM}	T _{vj} = 25 °C; 10 ms	9 000	14 000	A
	T _{vj} = 130 °C; 10 ms	8 000	12 000	A
i ² t	T _{vj} = 25 °C; 8,3 ... 10 ms	405 000	980 000	A ² s
	T _{vj} = 130 °C; 8,3 ... 10 ms	320 000	720 000	A ² s
t _{gd}	T _{vj} = 25 °C I _G = 1 A	1 2		μs
t _{gr}	V _D = 0,67 · V _{DRM}			μs
(di/dt) _{cr}	T _{vj} = 130 °C	125		A/μs
t _q	T _{vj} = 130 °C	typ. 150 ... 200		μs
I _H	T _{vj} = 25 °C	150 / 500		mA
I _L	T _{vj} = 25 °C; R _G = 33 Ω; typ./max.	0,5 / 2		A
V _T	T _{vj} = 25 °C; (I _T = . . .); max.	2,05 (1500)	1,7 (2400)	V A
V _{T(TO)}	T _{vj} = 130 °C	1,2	0,92	V
r _T	T _{vj} = 130 °C	0,55	0,3	mΩ
I _{DD} ; I _{RD}	T _{vj} = 130 °C; V = V _{DRM} / V _{RRM}	120	80	mA
V _{GT}	T _{vj} = 25 °C; d.c.	2		V
I _{GT}	T _{vj} = 25 °C; d.c.	200		mA
V _{GD}	T _{vj} = 130 °C; d.c.	0,25		V
I _{GD}	T _{vj} = 130 °C; d.c.	10		mA
R _{thjc}	cont.	0,09		°C/W
	sin. 180	0,095		°C/W
	rec. 120	0,11		°C/W
R _{thch}		0,02		°C/W
T _{vj} ; 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 to terminals } SI (US) units	5 (44 lb. in.) ± 15 % ¹⁾		Nm
M ₂		17 (150 lb. in.) ± 15 % ²⁾		Nm
a		5 · 9,81		m/s ²
w	approx.	940		g
Case	→ page B 1 – 94	A 36		

1) See the assembly instructions

2) The screws must be lubricated

SEMIPACK® 4

Thyristor Modules

SKET 330

SKET 400



- Features

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

- Typical Applications

 - DC motor control (e. g. for machine tools)
 - Temperature control (e. g. for ovens, chemical processes)
 - Professional light dimming (studios, theaters)

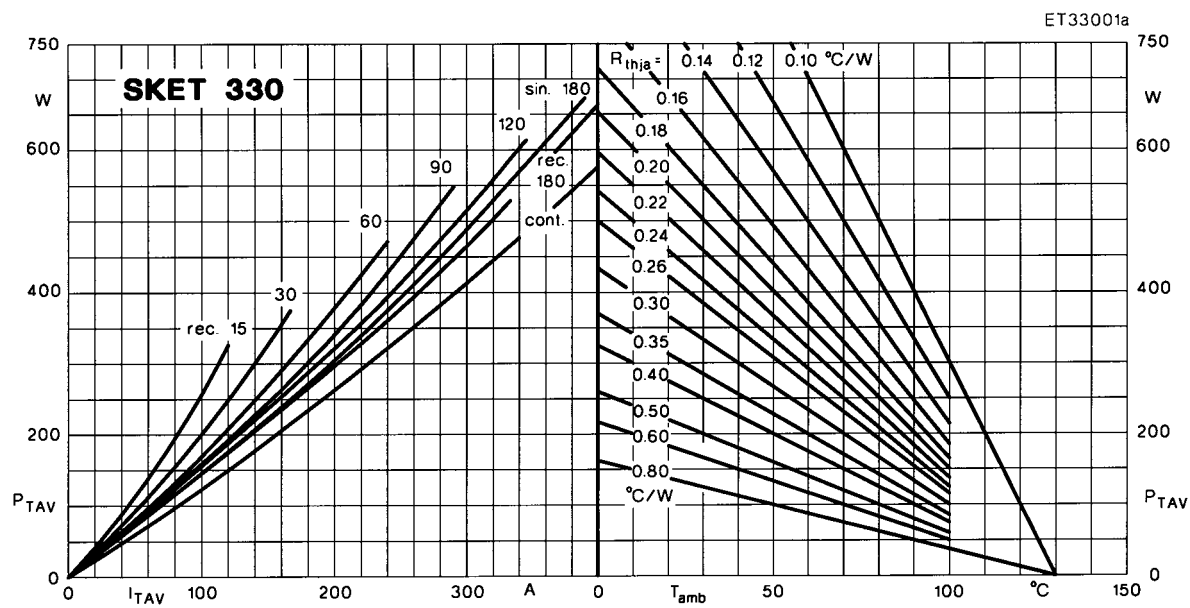


Fig. 1 a Power dissipation vs. on-state current and ambient temperature

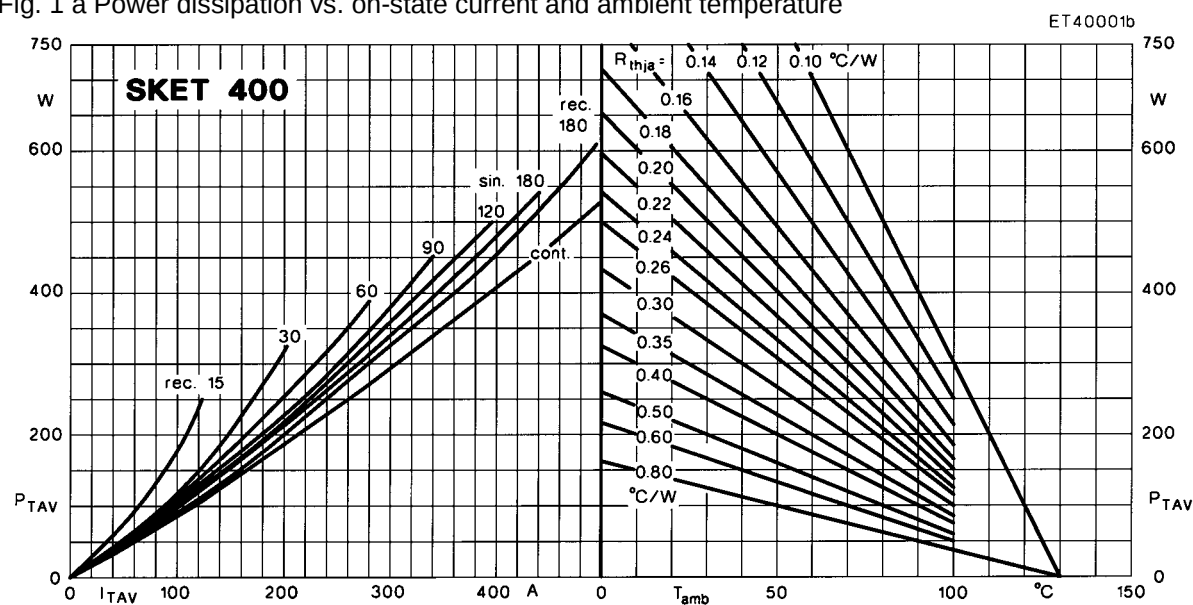


Fig. 1 b Power dissipation vs. on-state current and ambient temperature

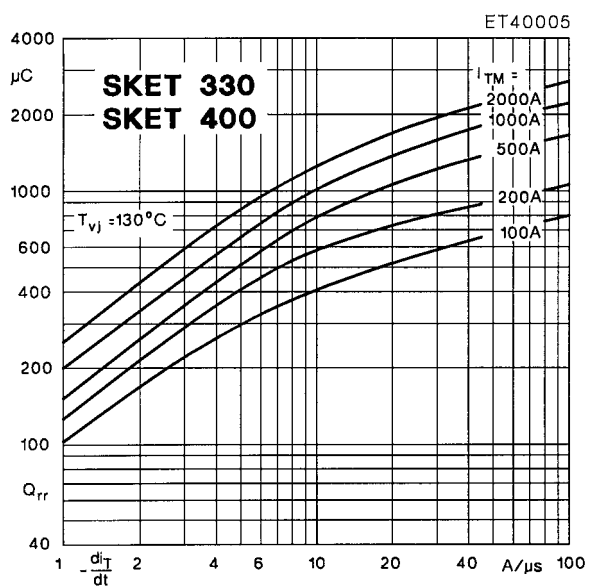


Fig. 5 Recovered charge vs. current decrease

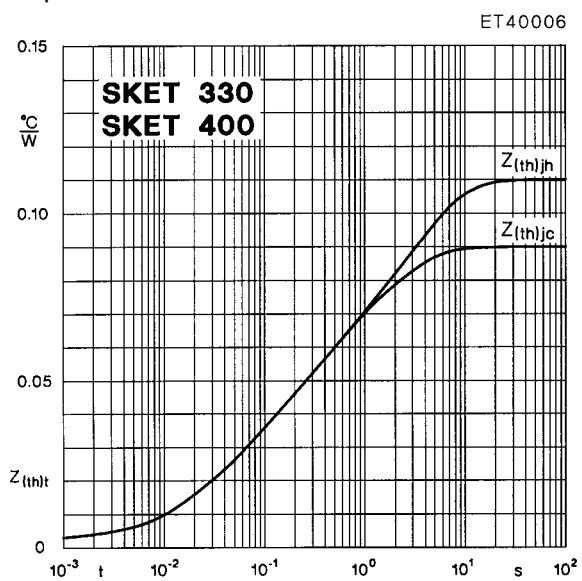


Fig. 6 Transient thermal impedance vs. time

ET40007

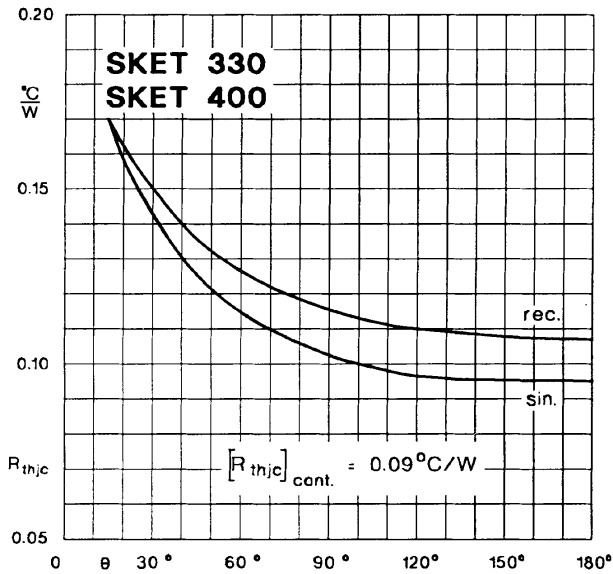


Fig. 7 Thermal resistance vs. conduction angle

ET33008a

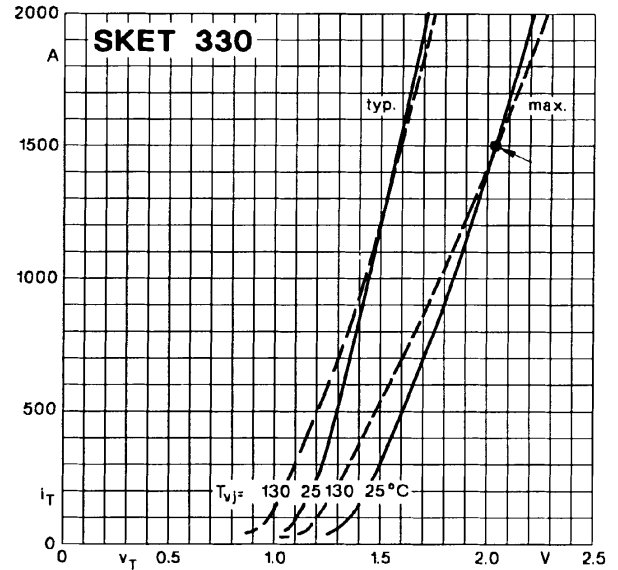


Fig. 8 a On-state characteristics

ET40008b

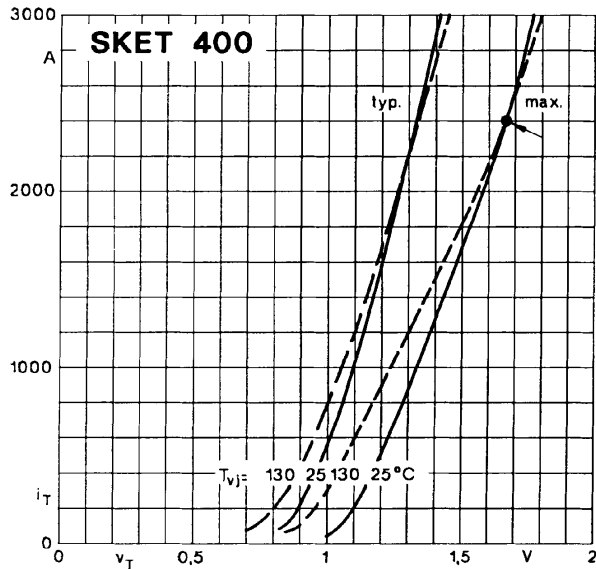


Fig. 8 b On-state characteristics

ET40009

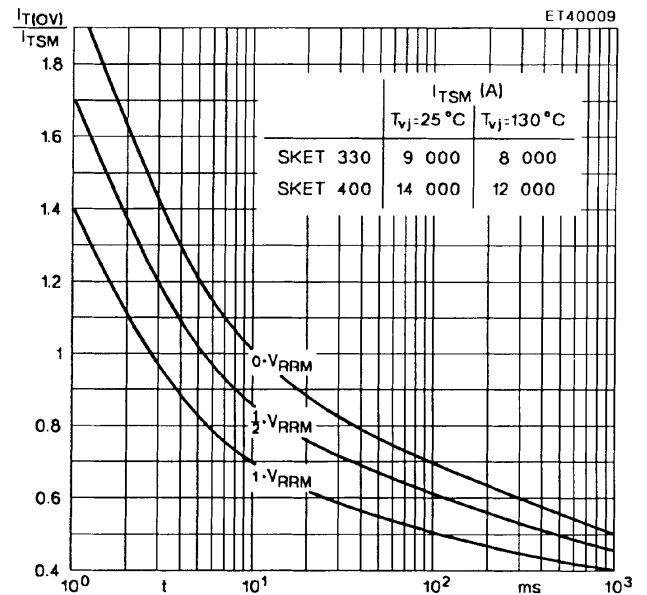


Fig. 9 Surge overload current vs. time

ET33010

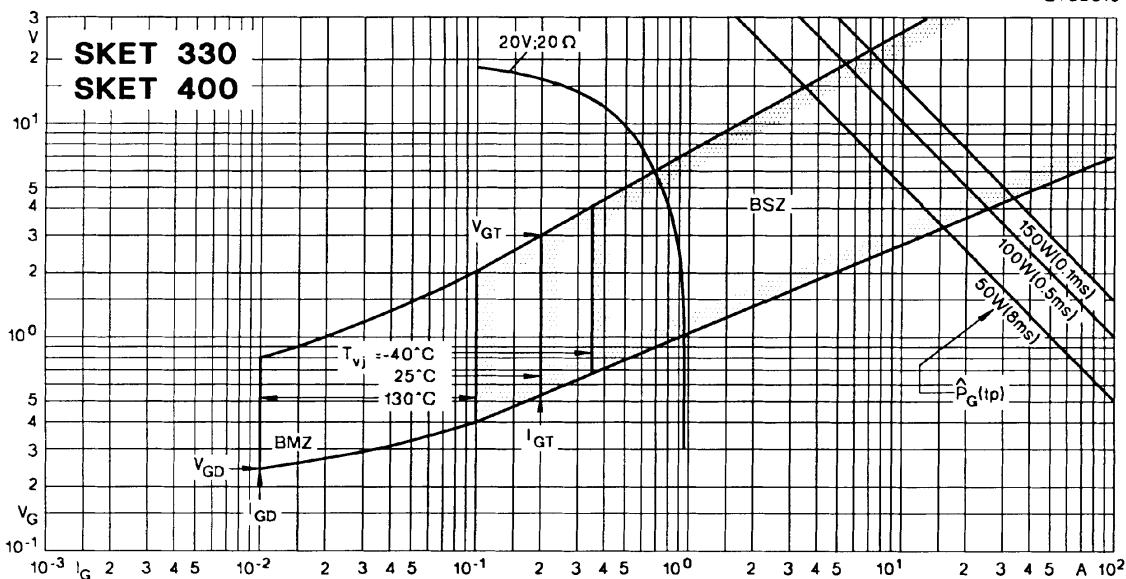
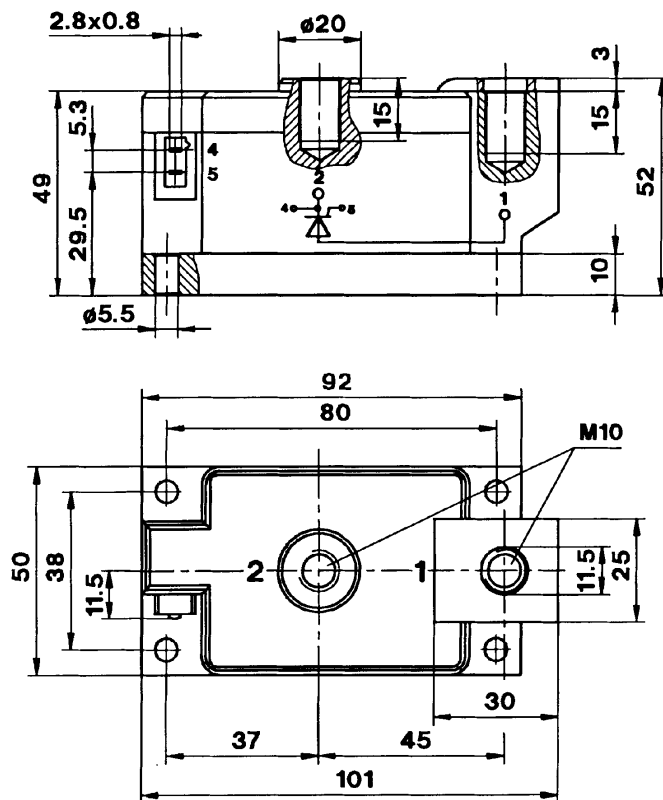


Fig. 10 Gate trigger characteristics

SKET 330
SKET 400

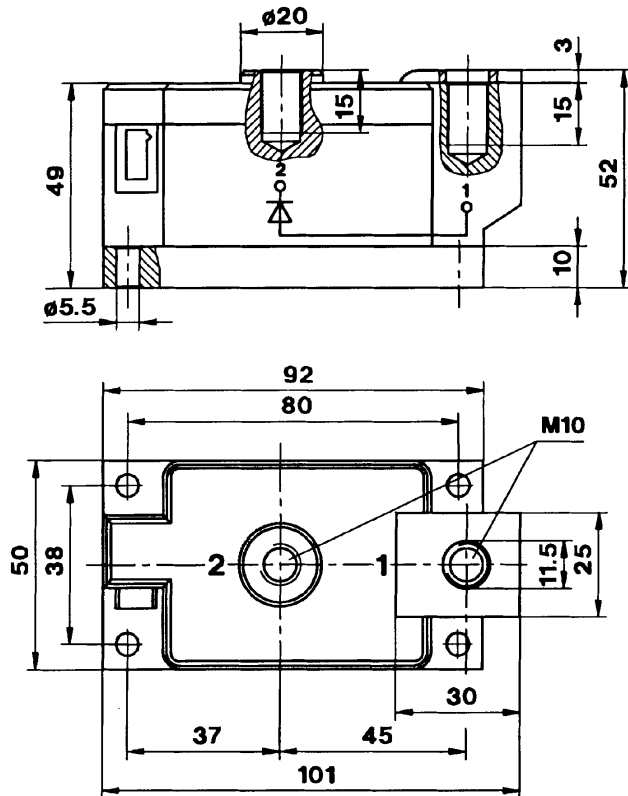
Case A 36

SEMIPACK[®] 4

Dimensions in mm

SKKE 400

Case A 42

SEMIPACK[®] 4

Dimensions in mm