V_{RSM}	V_{RRM} V_{DRM}	$(dv/dt)_{cr}$	I_{TRMS} (maximum values for continuous operation)	
			600 A	700 A
			I_{TAV} (sin. 180; T_{case} = . . .)	
V	V	V/µs	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	400	A
		(78)	(84)	°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^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	405 000	980 000	A^2s
	T_{vj} = 130 °C; 8,3 ... 10 ms	320 000	720 000	A^2s
t_{gd}	T_{vj} = 25 °C I_G = 1 A di_G/dt = 1 A/µs	1		µs
t_{gr}	V_D = 0,67 · V_{DRM}	2		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	1,7	V
		(1500)	(2400)	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.	3		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 } SI (US) units	5 (44 lb. in.) ± 15 %[1)]		Nm
M_2	to terminals } SI (US) units	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

SKET

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)

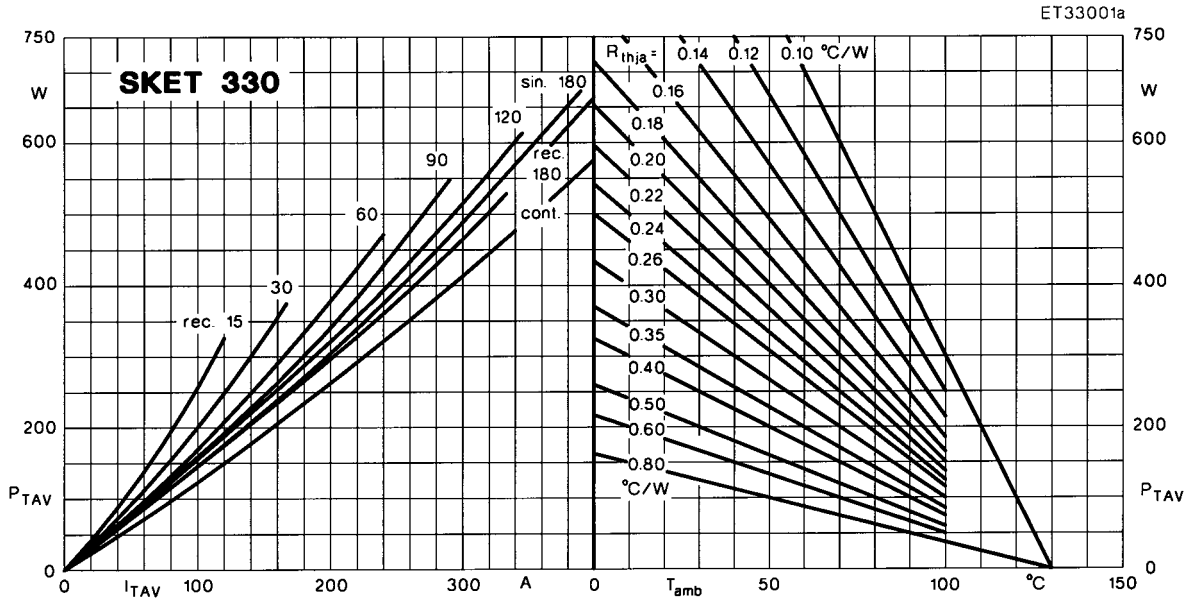


Fig. 1 a Power dissipation vs. on-state current and ambient temperature

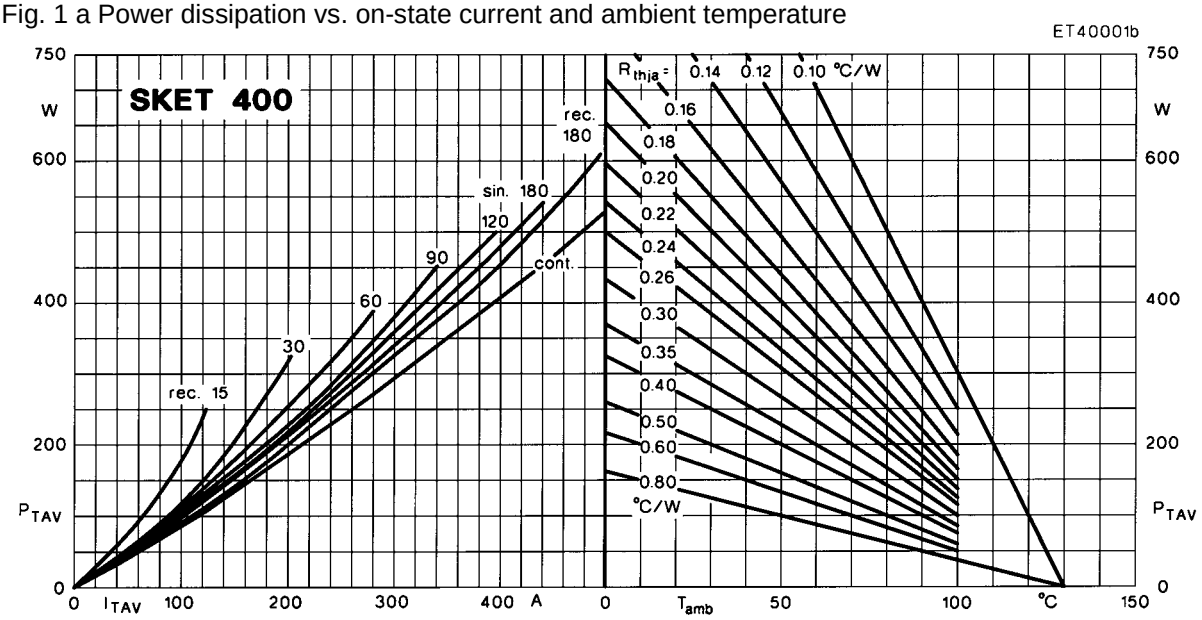


Fig. 1 b Power dissipation vs. on-state current and ambient temperature

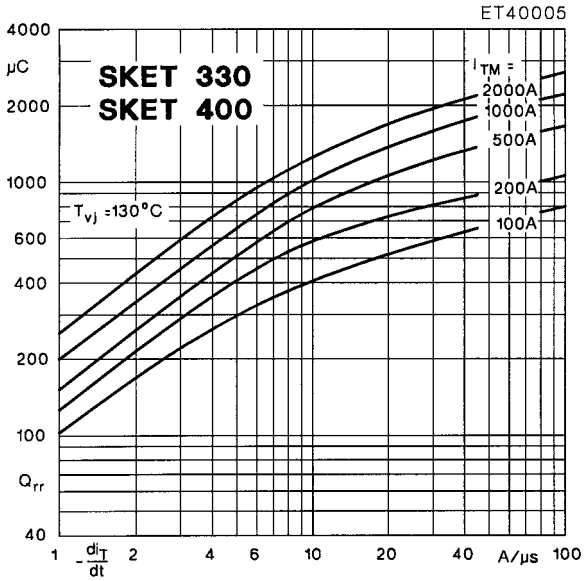


Fig. 5 Recovered charge vs. current decrease

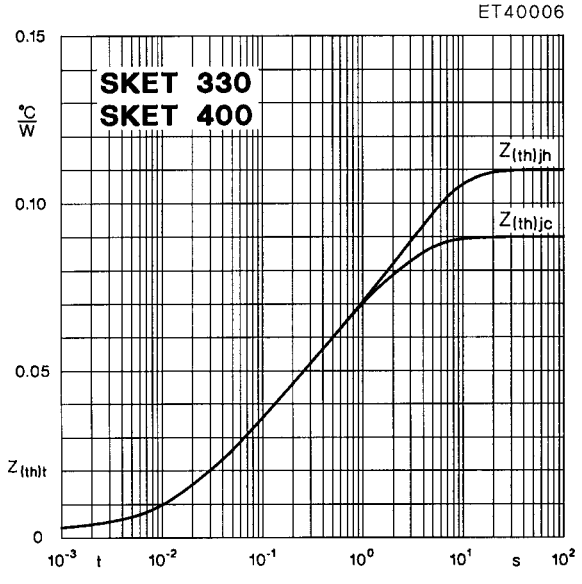


Fig. 6 Transient thermal impendance vs. time

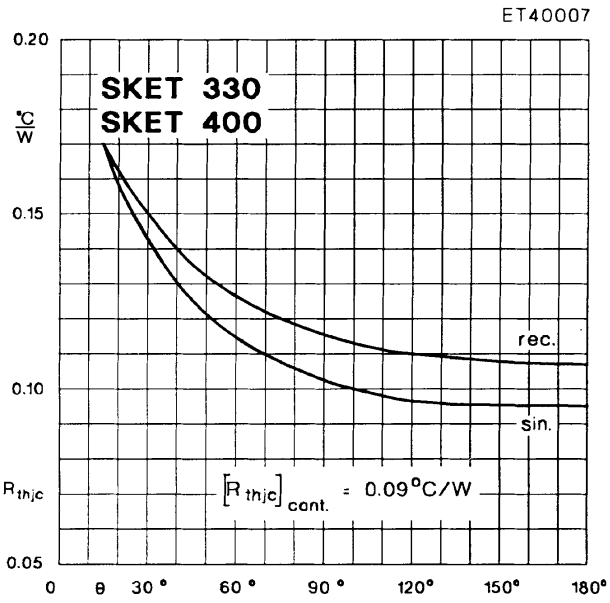


Fig. 7 Thermal resistance vs. conduction angle

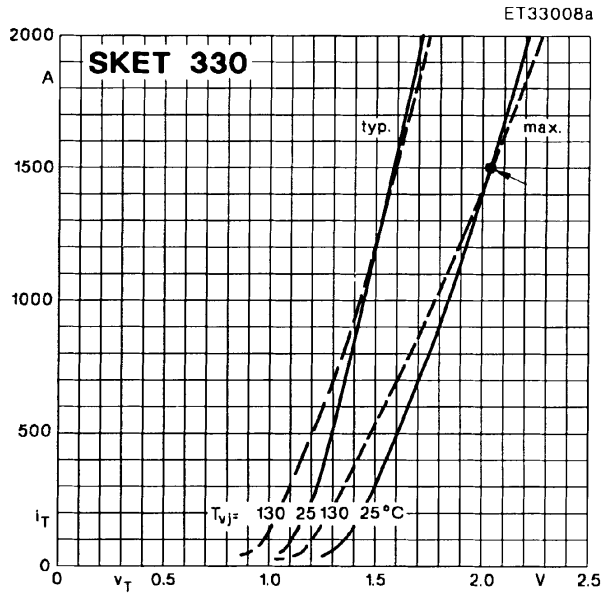


Fig. 8 a On-state characteristics

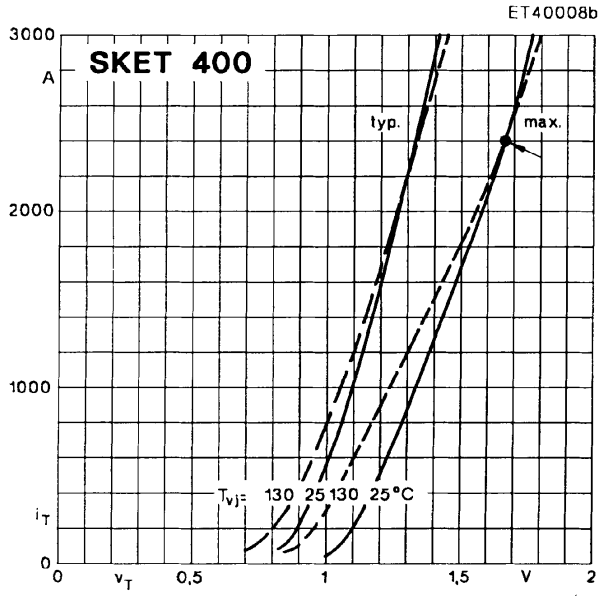


Fig. 8 b On-state characteristics

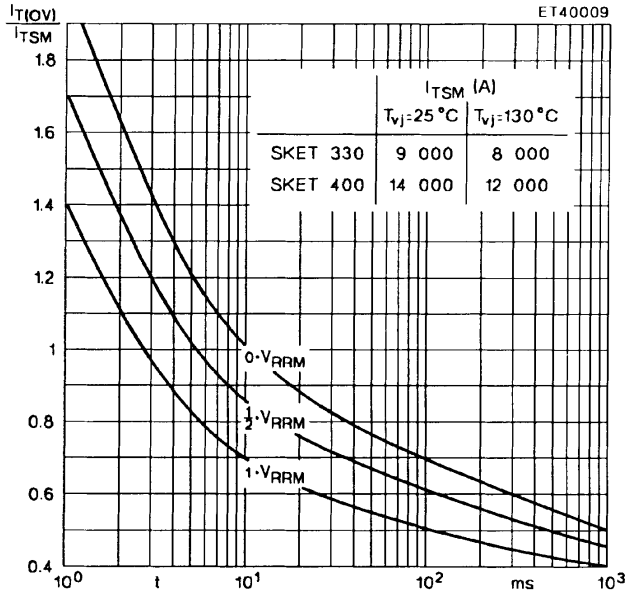


Fig. 9 Surge overload current vs. time

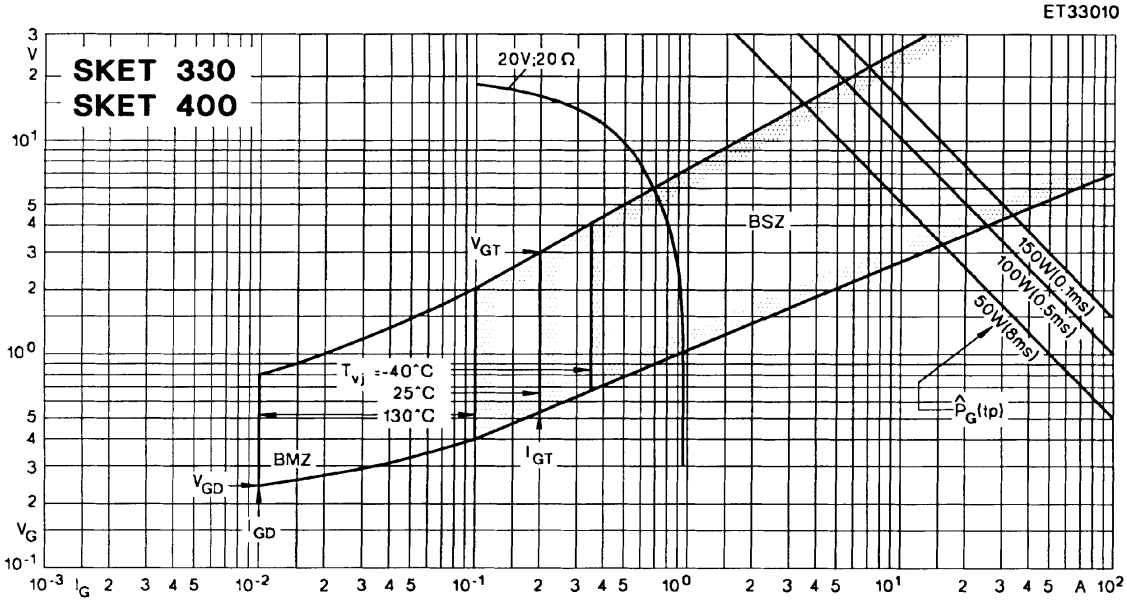
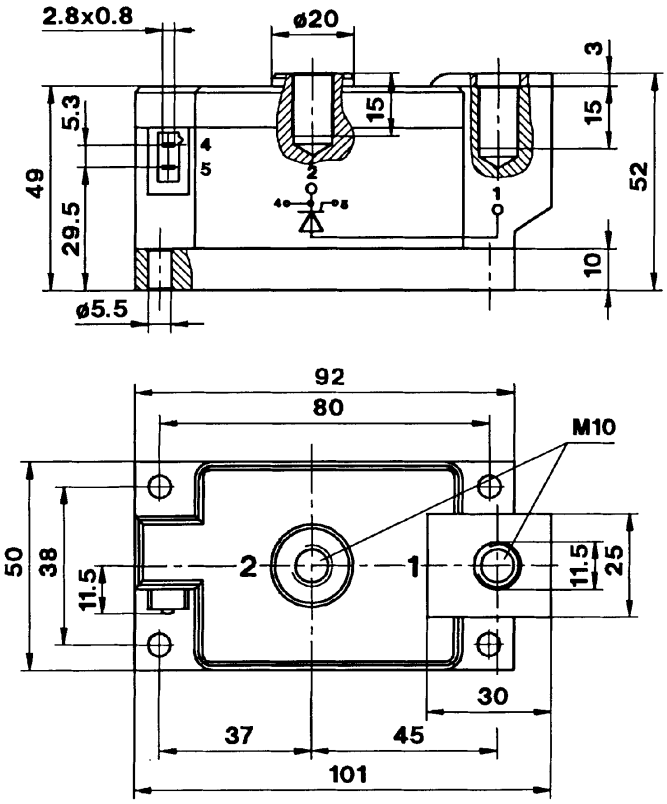


Fig. 10 Gate trigger characteristics

SKET 330
SKET 400

Case A 36

SEMIPACK® 4

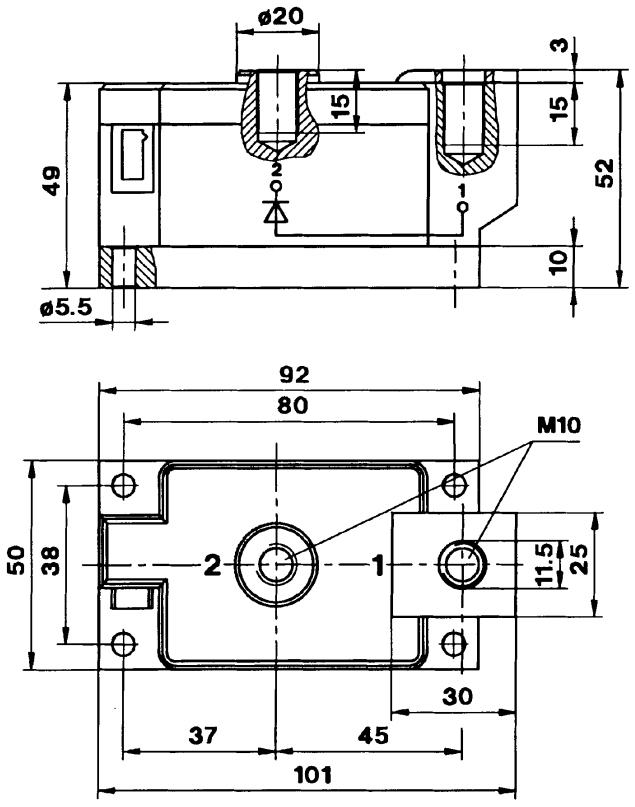


Dimensions in mm

SKKE 400

Case A 42

SEMIPACK® 4



Dimensions in mm

