



SEMIPACK® 4

Thyristor Modules

SKET 330

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor 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)

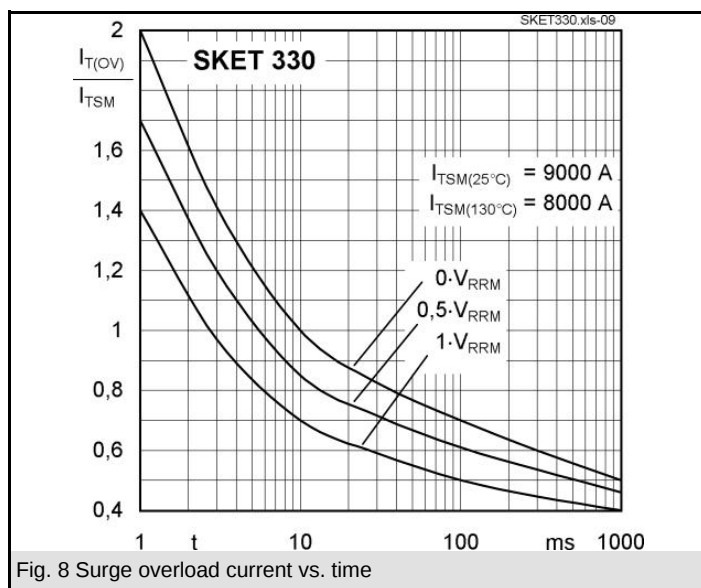
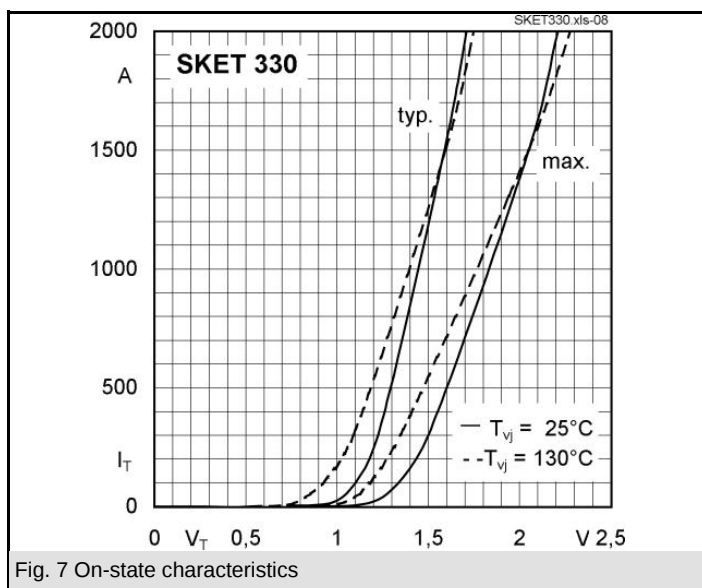
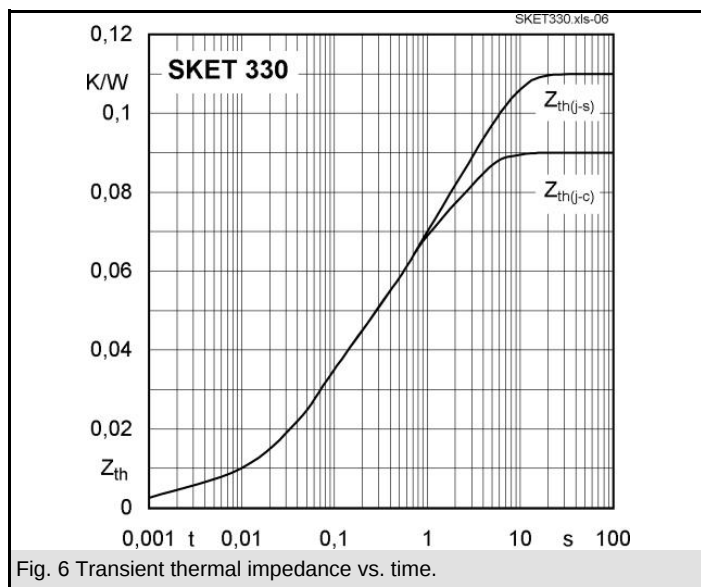
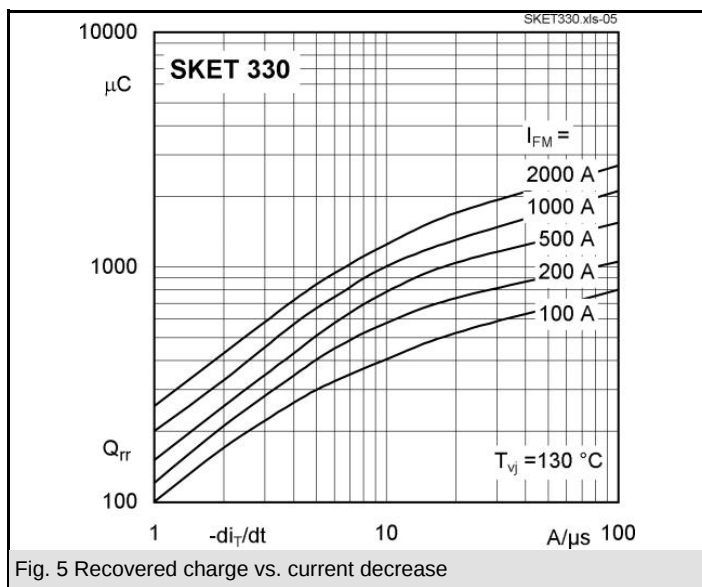
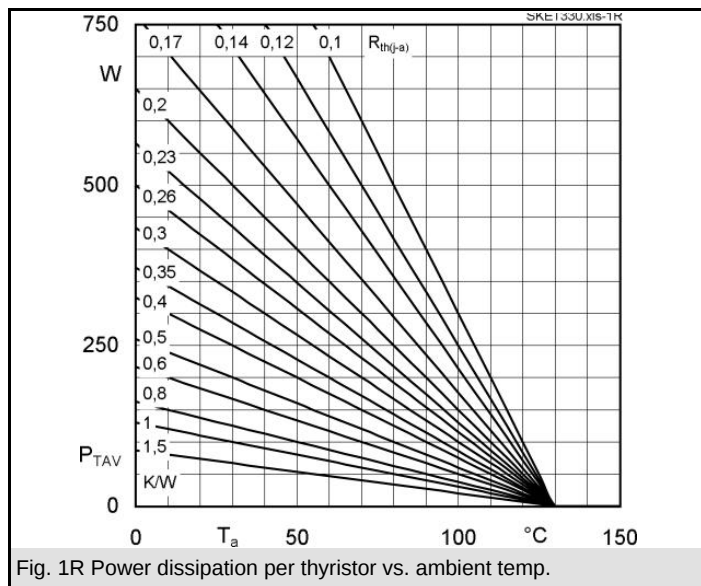
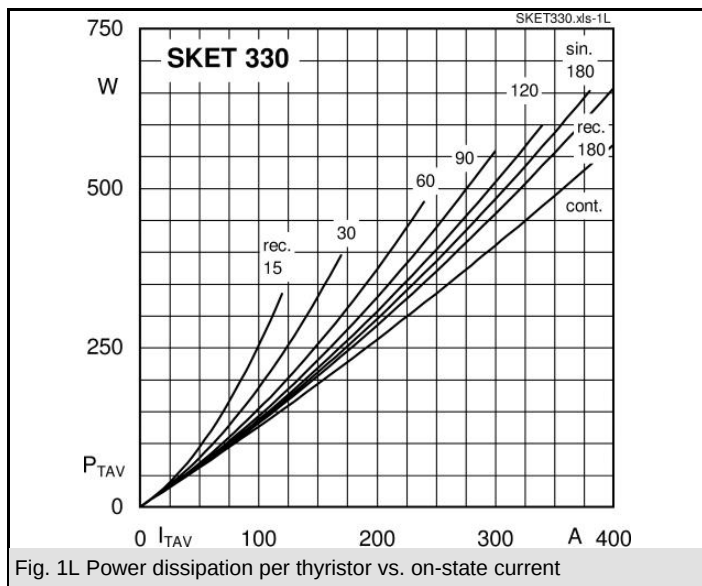
- 1) See the assembly instructions
- 2) The screws must be lubricated

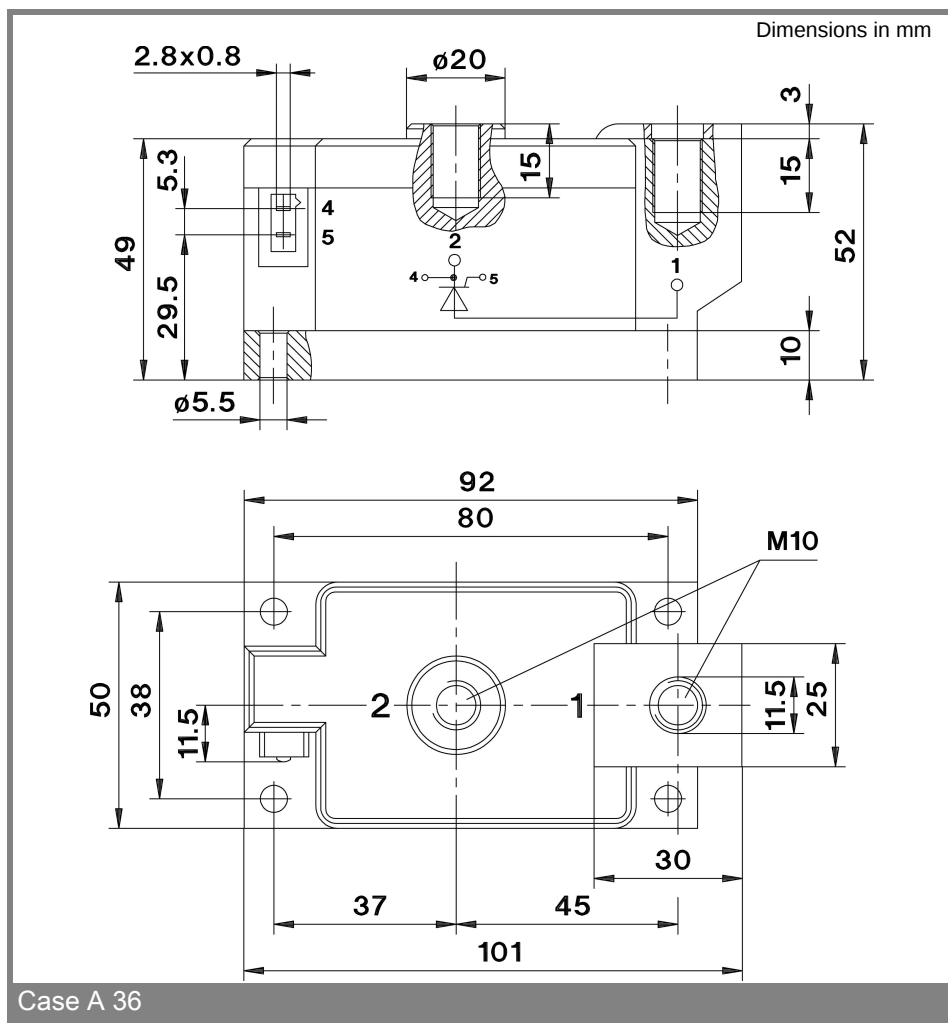
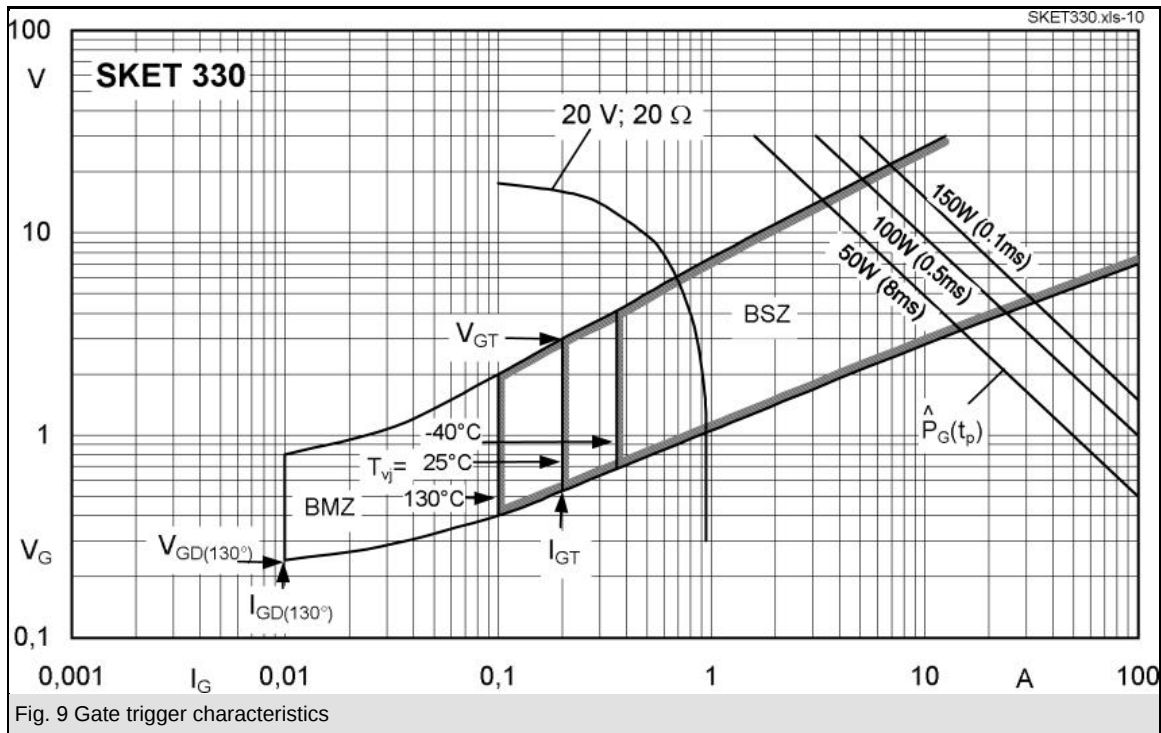


SKET

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_{TRMS} = 600$ A (maximum value for continuous operation) $I_{TAV} = 330$ A (sin. 180; $T_c = 78$ °C)		
900	800	SKET 330/08E		
1300	1200	SKET 330/12E		
1500	1400	SKET 330/14E		
1700	1600	SKET 330/16E		
1900	1800	SKET 330/18E		
2100	2000	SKET 330/20E		
2300	2200	SKET 330/22E		

Symbol	Conditions	Values	Units
I_{TAV}	sin. 180; $T_c = 85$ (100) °C;	295 (210)	A
I_D	P16/300F; $T_a = 35$ °C; B2 / B6	530 / 665	A
I_{RMS}	P16/400F; $T_a = 35$ °C; W1 / W3	685 / 3 * 550	A
I_{TSM}	$T_{vj} = 25$ °C; 10 ms	9000	A
	$T_{vj} = 130$ °C; 10 ms	8000	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	405000	A²s
	$T_{vj} = 130$ °C; 8,3 ... 10 ms	320000	A²s
V_T	$T_{vj} = 25$ °C; $I_T = 1500$ A	max. 2,05	V
$V_{T(TO)}$	$T_{vj} = 130$ °C	max. 1,2	V
r_T	$T_{vj} = 130$ °C	max. 0,55	mΩ
I_{DD}, I_{RD}	$T_{vj} = 130$ °C; $V_{RD} = V_{RRM}, V_{DD} = V_{DRM}$	max. 200	mA
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	max. 125	A/μs
$(dv/dt)_{cr}$	$T_{vj} = 130$ °C	max. 1000	V/μs
t_q	$T_{vj} = 130$ °C ,	150 ... 200	μs
I_H	$T_{vj} = 25$ °C; typ. / max.	150 / 500	mA
I_L	$T_{vj} = 25$ °C; $R_G = 33$ Ω; typ. / max.	500 / 2000	mA
V_{GT}	$T_{vj} = 25$ °C; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25$ °C; d.c.	min. 200	mA
V_{GD}	$T_{vj} = 130$ °C; d.c.	max. 0,25	V
I_{GD}	$T_{vj} = 130$ °C; d.c.	max. 10	mA
$R_{th(j-c)}$	cont.	0,09	K/W
$R_{th(j-c)}$	sin. 180	0,095	K/W
$R_{th(j-c)}$	rec. 120	0,11	K/W
$R_{th(c-s)}$		0,02	K/W
T_{vj}		- 40 ... + 130	°C
T_{stg}		- 40 ... + 130	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1s / 1 min.	3600 / 3000	V~
M_s	to heatsink	5 ± 15 % ¹⁾	Nm
M_t	to terminal	17 ± 15 % ²⁾	Nm
a		$5 * 9,81$	m/s²
m	approx.	940	g
Case		A 36	





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