SKET 330



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

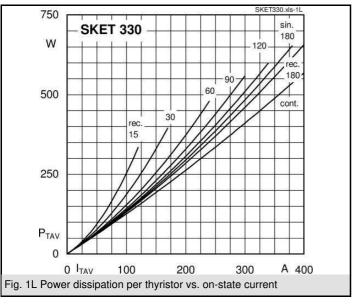
Typical Applications*

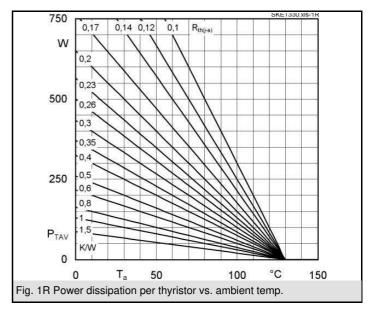
- DC motor control (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

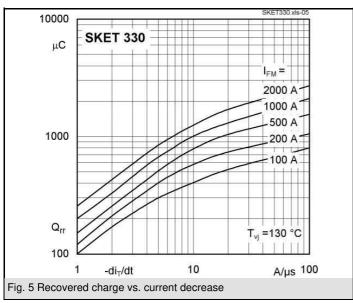
V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 600 A (maximum value for continuous operation)	
V	V	I _{TAV} = 330 A (sin. 180; T _c = 78 °C)	
1300 1500 1700 1900 2300	1200 1400 1600 1800 2200	SKET 330/12E SKET 330/14E SKET 330/16E SKET 330/18E SKET 330/22E	

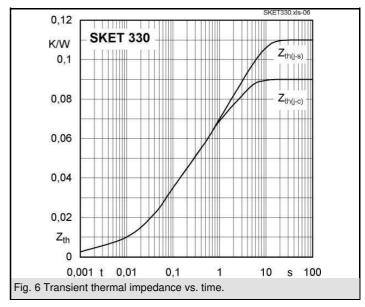
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	295 (210)	A
I'TAV I _D	P16/300F; T _a = 35 °C; B2 / B6	530 / 665	A
I _{RMS}	P16/400F; T _a = 35 °C; W1 / W3	685 / 3 * 550	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	9000	Α
'ISM	$T_{vi} = 130 ^{\circ}\text{C}; 10 \text{ms}$	8000	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	405000	A²s
	T _{vi} = 130 °C; 8,3 10 ms	320000	A²s
V _T	T _{vi} = 25 °C; I _T = 1500 A	max. 2,05	V
$V_{T(TO)}$	T _{vi} = 130 °C	max. 1,2	V
r _T	T _{vi} = 130 °C	max. 0,55	mΩ
I _{DD} ; I _{RD}	$T_{vj} = 130 ^{\circ}\text{C}; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 200	mA
t _{gd}	$T_{vi} = 25 ^{\circ}\text{C}; I_{G} = 1 \text{A}; di_{G}/dt = 1 \text{A/}\mu\text{s}$	1	μs
t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) _{cr}	T _{vi} = 130 °C	max. 125	A/µs
(dv/dt) _{cr}	T _{vi} = 130 °C	max. 1000	V/µs
t _q	$T_{vi} = 130 ^{\circ}\text{C}$	150 200	μs
I _H	$T_{vj} = 25 ^{\circ}\text{C}$; typ. / max.	150 / 500	mA
I _L	$T_{vj} = 25 ^{\circ}\text{C}; R_{G} = 33 \Omega; \text{typ. / max.}$	500 / 2000	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 200	mA
V_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	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 %	Nm
а		5 * 9,81	m/s²
m	approx.	840	g
Case		A 36	

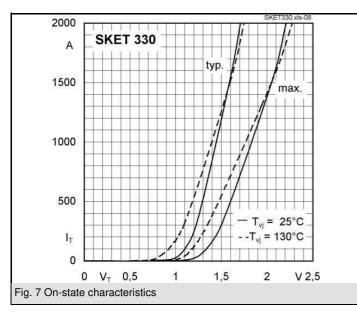


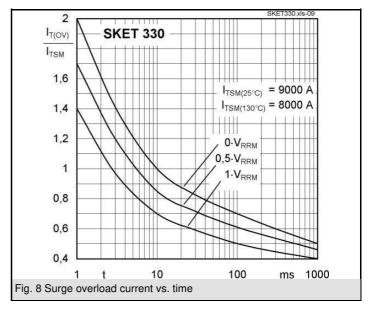




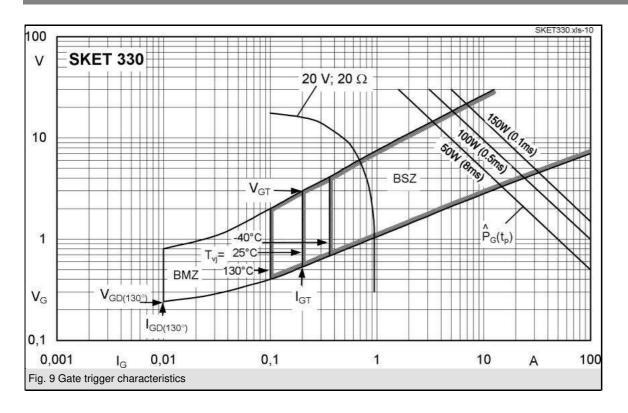


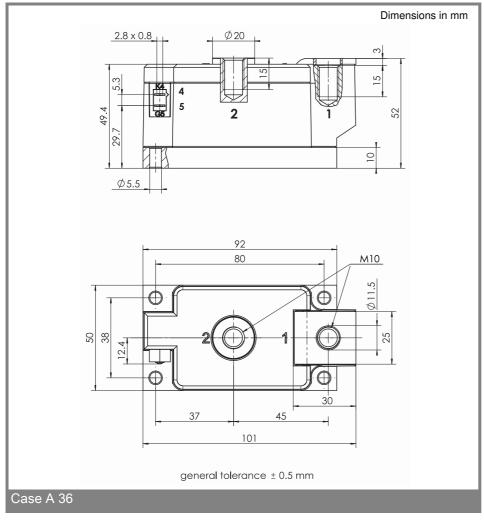


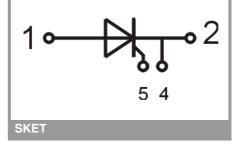




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This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

*IMPORTANT INFORMATION AND WARNINGS

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