SKET 400



SEMIPACK[®] 4

Thyristor Modules

SKET 400

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

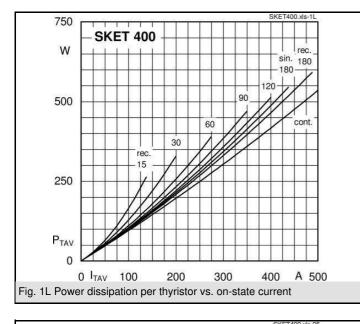
Typical Applications*

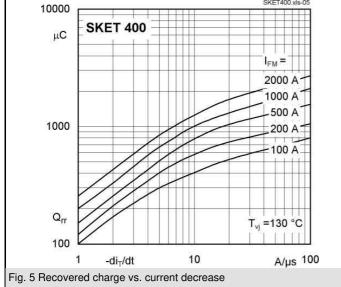
- DC motor control
 (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

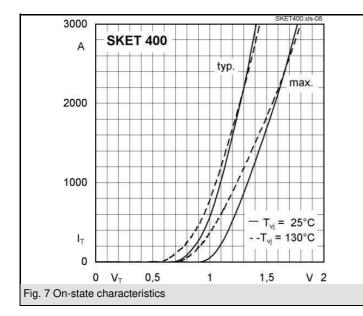
V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 700 A (maximum value for continuous operation)	
V	V	I _{TAV} = 400 A (sin. 180; T _c = 84 °C)	
900	800	SKET 400/08E	
1300	1200	SKET 400/12E	
1500	1400	SKET 400/14E	
1700	1600	SKET 400/16E	
1900	1800	SKET 400/18E	

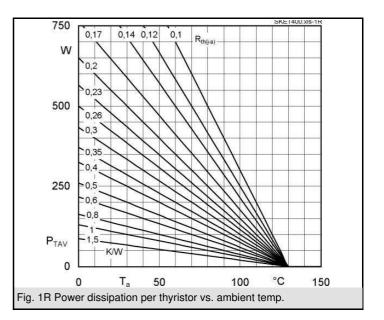
Symbol	Conditions	Values	Units
ITAV	sin. 180; T _c = 85 (100) °C;	392 (280)	А
I _D	P16/300F; T _a = 35 °C; B2 / B6	700 / 880	А
I _{RMS}	P16/400F; T _a = 35 °C; W1 / W3	905 / 3 * 720	А
I _{TSM}	T _{vi} = 25 °C; 10 ms	14000	А
	T _{vi} = 130 °C; 10 ms	12000	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	980000	A²s
	T _{vj} = 130 °C; 8,3 10 ms	720000	A²s
V _T	T _{vi} = 25 °C; I _T = 2400 A	max. 1,7	V
V _{T(TO)}	T _{vi} = 130 °C	max. 0,92	V
r _T	T _{vj} = 130 °C	max. 0,3	mΩ
I _{DD} ; I _{RD}	T_{vj} = 130 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 130	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 _{vi} = 130 °C	max. 125	A/µs
(dv/dt) _{cr}	$T_{vi}^{ij} = 130 ^{\circ}\text{C}$	max. 1000	V/µs
t _q	T _{vi} = 130 °C ,	150 200	μs
I _H	$T_{vi} = 25 \text{ °C; typ. / max.}$	150 / 500	mA
I _L	T _{vj} = 25 °C; R _G = 33 Ω; typ. / max.	500 / 2000	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	T _{vi} = 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
Mt	to terminal	17 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	840	g
Case		A 36	

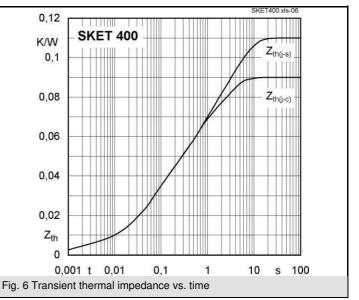


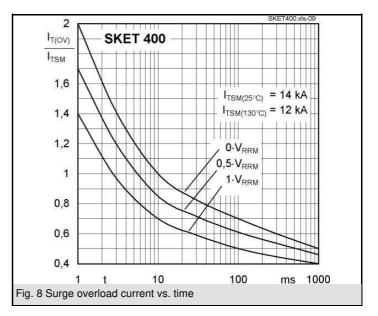




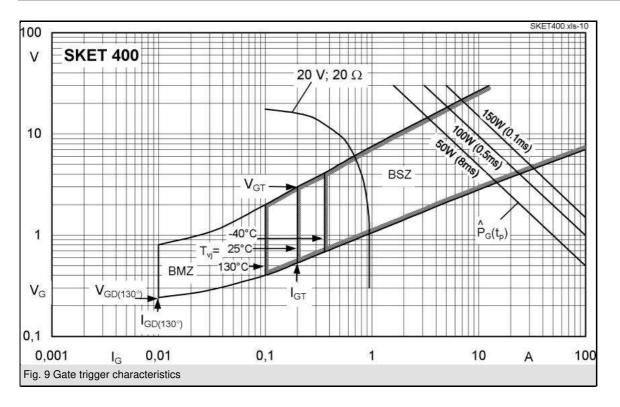


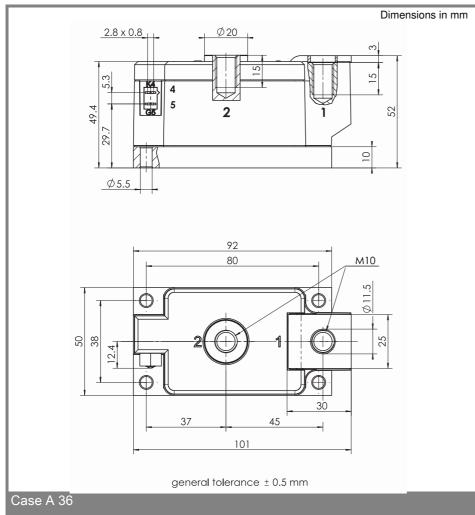


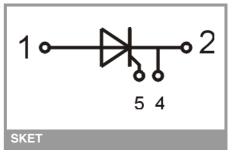




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This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

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