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

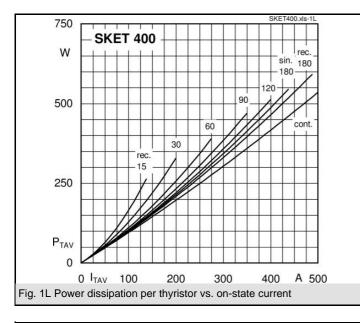
Typical Applications*

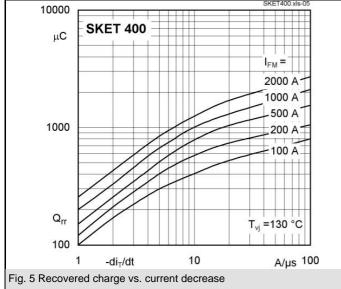
- DC motor control
 (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

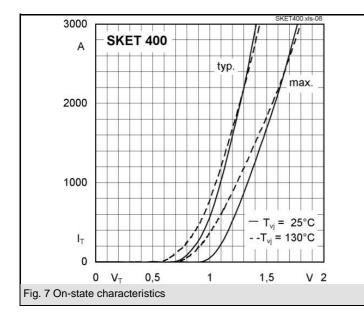
V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 700 A (maximum value for continuous operation)	
V	V	I _{TAV} = 400 A (sin. 180; T _c = 84 °C)	
900	800	SKET 400/08E	
1300	1200	SKET 400/12E	
1500	1400	SKET 400/14E	
1700	1600	SKET 400/16E	
1900	1800	SKET 400/18E	

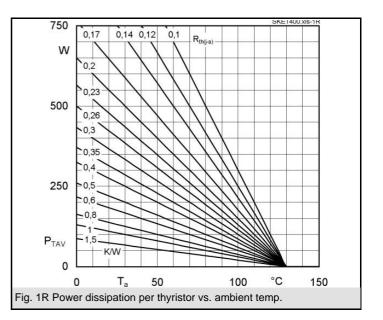
Symbol	Conditions	Values	Units
ITAV	sin. 180; T _c = 85 (100) °C;	392 (280)	А
I _D	P16/300F; T _a = 35 °C; B2 / B6	700 / 880	А
I _{RMS}	P16/400F; T _a = 35 °C; W1 / W3	905 / 3 * 720	А
I _{TSM}	T _{vi} = 25 °C; 10 ms	14000	А
	T _{vi} = 130 °C; 10 ms	12000	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	980000	A²s
	T _{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 _{vi} = 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}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	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 °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 _{vi} = 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(i-c)}	rec. 120	0,11	K/W
R _{th(c-s)}		0,02	K/W
T _{vi}		- 40 + 130	°C
T _{stg}		- 40 + 130	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1s / 1 min.	3600 / 3000	٧~
M _s	to heatsink	5 ± 15 % ¹⁾	Nm
M _t	to terminal	17 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	940	g
Case		A 36	

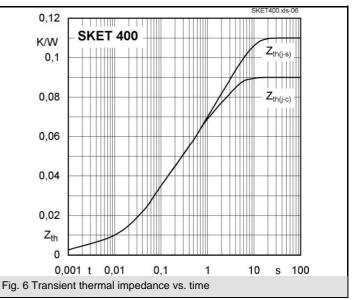


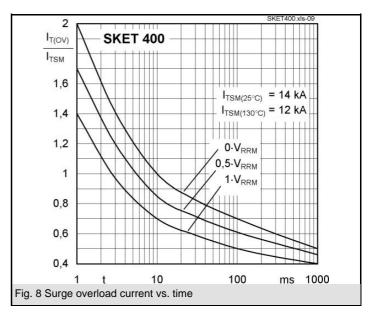






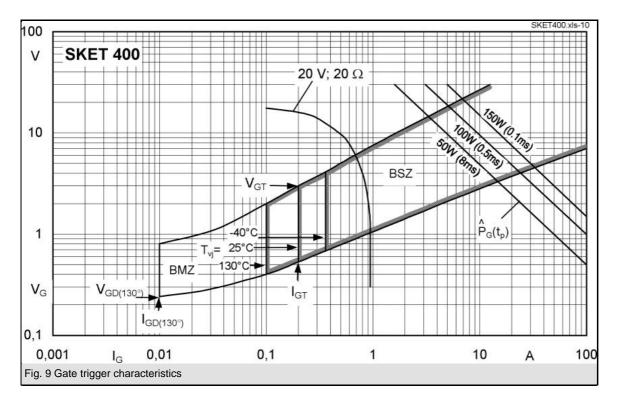


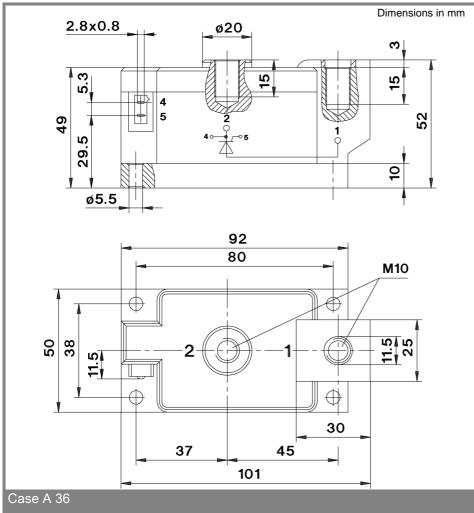




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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our staff.

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