

V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 40 A (maximum value for continuous operation)		
V	V	I _{TAV} = 16 A (sin. 180; T _c = 104 °C)		
500	400	SKT 16/04D		
700	600	SKT 16/06D ¹⁾		
900	800	SKT 16/08D		
1300	1200	SKT 16/12E ¹⁾		
1500	1400	SKT 16/14E		
1700	1600	SKT 16/16E		
1900	1800	SKT 16/18E		

Stud Thyristor

Line Thyristor

SKT 16

Features

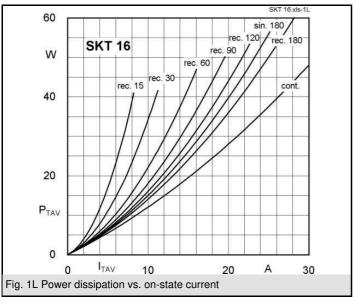
- Hermetic metal case with glass insulator
- Threaded stud ISO M6 or UNF 1/4-28
- · International standard case

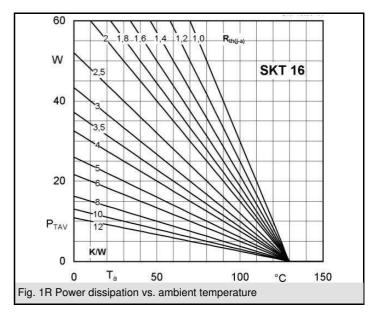
Typical Applications*

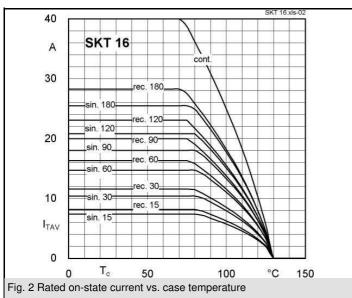
- DC motor control (e. g. for machine tools)
- Controlled rectifiers (e. g. for battery charging)
- AC controllers
 Ac a for temperature
 - (e. g. for temperature control)
- Recommended snubber network e. g. for $V_{VRMS} \le 400 \text{ V}$: R = 100 $\Omega/5$ W, C = 1 μF
- 1) Available with UNF thread 1/4-28 UNF2A, e. g. SKT 16/06D UNF

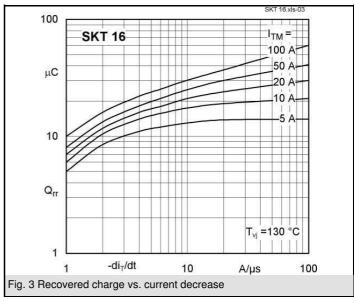
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 100 (85) °C;	18 (23)	Α
I_D	K5; T _a = 45 °C; B2 / B6	18 / 24	Α
	K3; T _a = 45 °C; B2 / B6	24 /33	Α
I _{RMS}	K5; T _a = 45 °C; W1C	20	Α
I _{TSM}	T _{vj} = 25 °C; 10 ms	370	Α
	$T_{vj} = 130 ^{\circ}\text{C}; 10 \text{ms}$	330	Α
i²t	T _{vj} = 25 °C; 8,35 10 ms	680	A²s
	T _{vj} = 130 °C; 8,35 10 ms	550	A²s
V _T	T _{vj} = 25 °C; I _T = 75 A	max. 2,4	V
$V_{T(TO)}$	T _{vj} = 130 °C	max. 1	V
r_T	$T_{vj} = 130 ^{\circ}\text{C}$	max. 20	$m\Omega$
I_{DD} ; I_{RD}	T_{vj} = 130 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 8	mA
t _{gd}	$T_{vj} = 25 \text{ °C; } I_G = 1 \text{ A; } di_G/dt = 1 \text{ A/}\mu\text{s}$	1	μs
t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) _{cr}	T _{vi} = 130 °C	max. 50	A/µs
(dv/dt) _{cr}	T _{vj} = 130 °C ; SKTD / SKTE	max. 500 / 1000	V/µs
t _q	$T_{vj} = 130 ^{\circ}\text{C}$,	80	μs
I _H	T_{vj} = 25 °C; typ. / max.	80 / 150	mA
IL	T_{vj} = 25 °C; typ. / max.	150 / 300	mA
V _{GT}	T _{vj} = 25 °C; d.c.	min. 3	٧
I_{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 100	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. 3	mA
R _{th(j-c)}	cont.	0,8	K/W
R _{th(j-c)}	sin. 180	0,9	K/W
R _{th(j-c)}	rec. 120	0,95	K/W
R _{th(c-s)}		0,5	K/W
T_{vj}		- 40 + 130	°C
T_{stg}		- 40 + 150	°C
V _{isol}		-	V~
M _s	to heatsink	2,5	Nm
а		5 * 9,81	m/s²
m	approx.	13	g
Case		B 2	

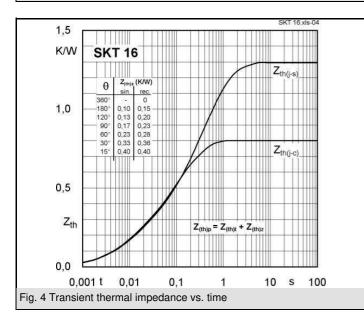


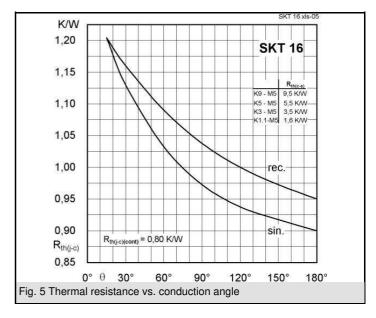




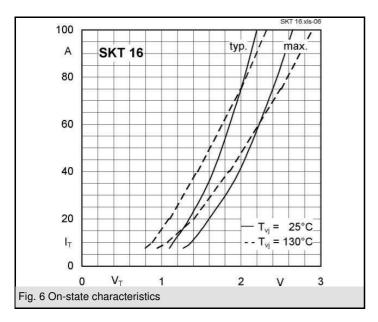


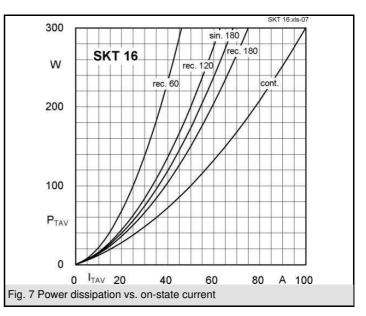


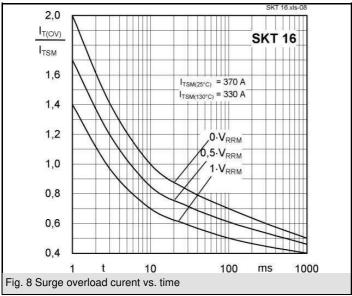


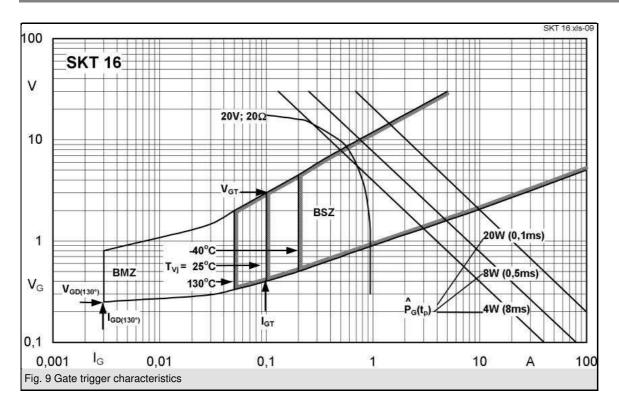


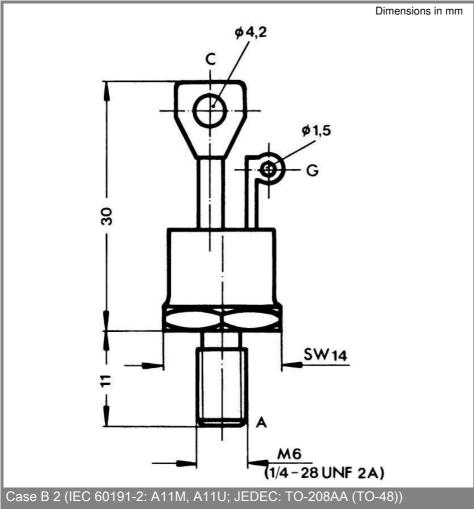
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^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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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 personal.