SKT 551



Capsule Thyristors

Thyristors

SKT 551

Features

- Hermetic metal case with ceramic insulator
- Capsule package for double sided cooling
- Shallow design with single sided cooling
- · International standard case
- Off-state and reverse voltages up to 1800 V
- Amplifying gate

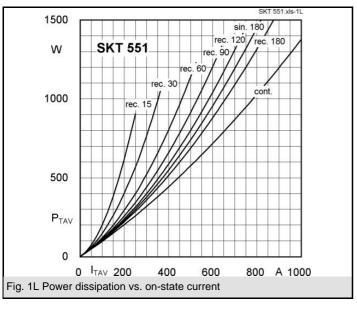
Typical Applications*

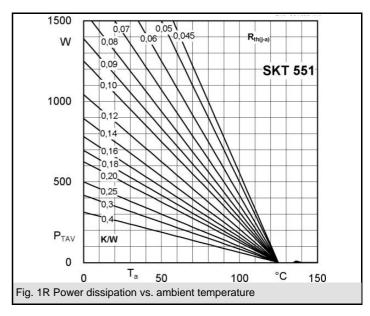
- DC motor control (e. g. for machine tools)
- Controlled rectifiers (e. g. for battery charging)
- AC controllers
 - (e. g. for temperature control)
- Recommended snubber network e.g. for $V_{VRMS} \le 400 \text{ V}$: R = 33 $\Omega/32$ W, C = 0,47 μF

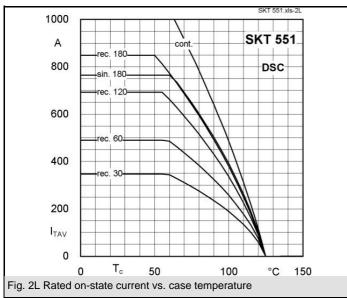
V_{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 1200 A (maximum value for continuous operation)		
V	V	$I_{TAV} = 550 \text{ A (sin. 180; DSC; T}_{c} = 85 \text{ °C)}$		
1300	1200	SKT 551/12E		
1700	1600	SKT 551/16E		
1900	1800	SKT 551/18E		

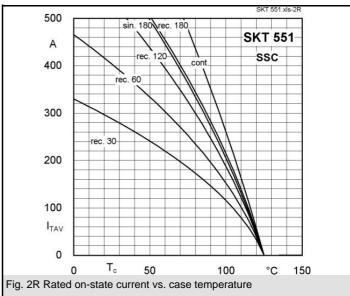
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 100 (85) °C;	391 (550)	Α
I _D	2 x P8/180; T _a = 45 °C; B2 / B6	390 / 560	Α
	2 x P8/180 F; T _a = 35 °C; B2 / B6	980 /1340	Α
I _{RMS}	2 x P8/180; T _a = 45 °C; W1C	430	Α
I _{TSM}	T _{vj} = 25 °C; 10 ms	9000	Α
	T _{vj} = 125 °C; 10 ms	8000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	405000	A ² s
	T _{vj} = 125 °C; 8,3 10 ms	320000	A²s
V_T	T _{vj} = 25 °C; I _T = 1500 A	max. 1,65	V
$V_{T(TO)}$	T _{vj} = 125 °C	max. 0,925	V
r _T	$T_{vj} = 125 ^{\circ}\text{C}$	max. 0,45	mΩ
I_{DD} ; I_{RD}	T_{vj} = 125 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 60	mA
t _{gd}	T_{vj} = 25 °C; I_G = 1 A; di_G/dt = 1 A/µs	1	μs
t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	1	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 125	A/µs
(dv/dt) _{cr}	T _{vj} = 125 °C	max. 1000	V/µs
t _q	$T_{vj} = 125 ^{\circ}\text{C}$	50 150	μs
I _H	T_{vj} = 25 °C; typ. / max.	150 / 500	mA
IL	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. 250	mA
V_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	T_{vj} = 125 °C; d.c.	max. 10	mA
R _{th(j-c)}	cont.; DSC	0,045	K/W
$R_{th(j-c)}$	sin. 180; DSC / SSC	0,047 / 0,1	K/W
R _{th(j-c)}	rec. 120; DSC / SSC	0,054 / 0,113	K/W
R _{th(c-s)}	DSC / SSC	0,012 / 0,024	K/W
T_{vj}		- 40 + 125	°C
T _{stg}		- 40 + 130	°C
V _{isol}		-	V~
F	mounting force	5,2 8	kN
а			m/s²
m	approx.	105	g
Case		B 11	

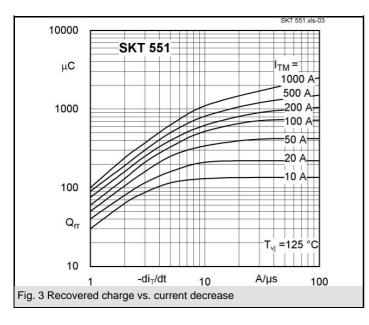


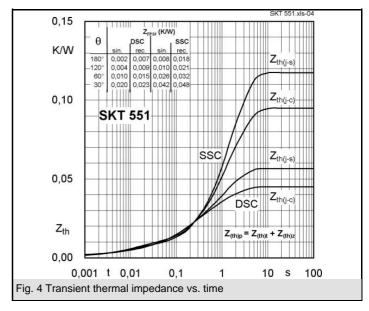




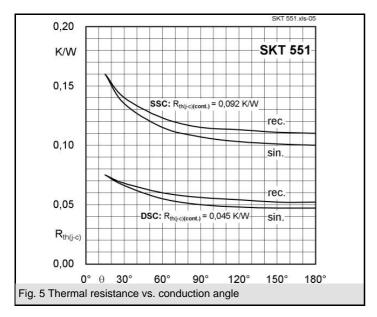


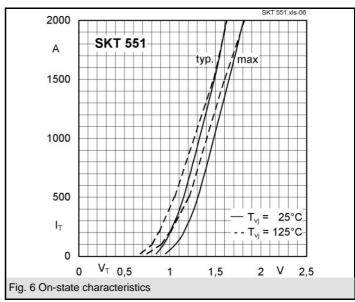


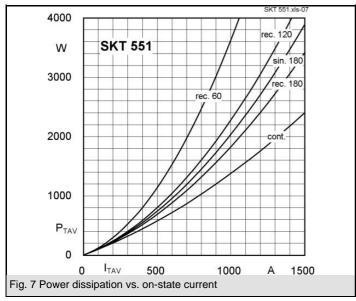


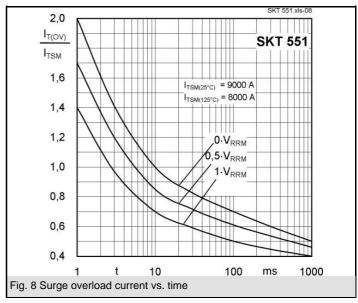


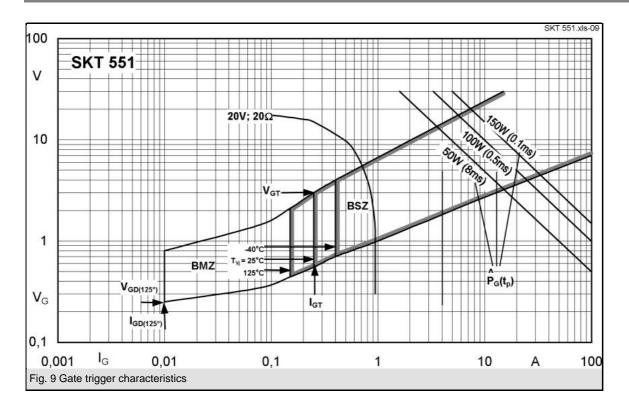
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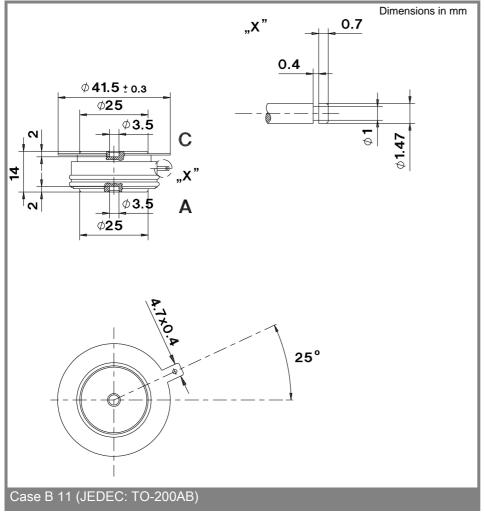


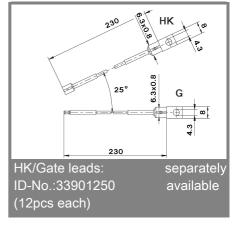












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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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 staff.

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