

Stud.	Thyristor
Stud	THYHOLOI

V _{RSM}	V _{RRM,} V _{DRM}	I _{TRMS} = 175 A (maximum value for continuous operation) I _{TAV} = 100 A (sin. 180; T _c = 85 °C)
500	400	SKT 100/04 D
900	800	SKT 100/08 D
1300	1200	SKT 100/12 E
1500	1400	SKT 100/14 E
1700	1600	SKT 100/16 E
1900	1800	SKT 100/18 E

Line Thyristor

SKT 100

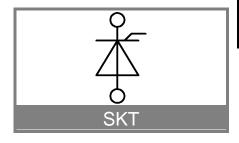
Features

- Hermetic metal case with glass insulator
- Threaded stud ISO M12 x 1,75 or ½" - 20 UNF 2A
- Interchangeable with international standard case

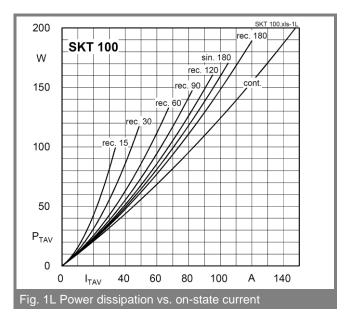
Typical Applications *

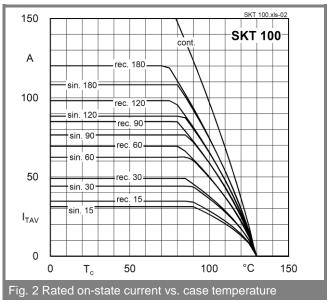
- DC motor control (e.g. for machine tools)
- Controlled rectifiers

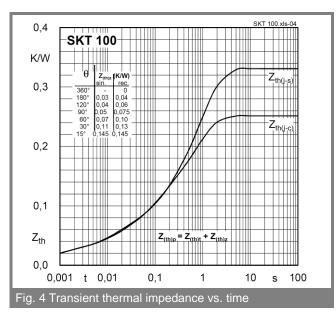
 (e.g. for battery charging)
- AC controllers
 (e.g. for temperature control)
- Recommended snubber network e.g. for $V_{RMS} \le 400 \text{ V}$: R= 47 $\Omega/10 \text{ W}$, C = 0,22 μF
- 1) Mounting with grease-like thermal compound or joint contact compound 2) M12 x 1,75 is standard, "UNF" should be added in description for ½" 20 2A thread. e.g.: SKT 100/08 D UNF

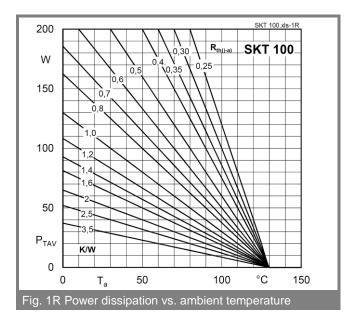


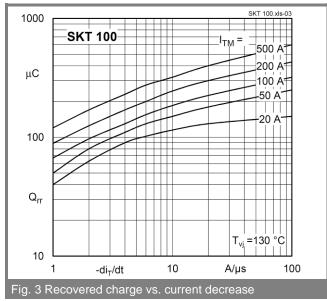
Symbol	Condition	Values	Units
ITAV ID IRMS	sin. 180; T _C = 100 (85) °C 2 x P1/120; T _a = 50 °C; B2/B6 2 x P1/120F; T _a = 40 °C; B2/B6 2 x P1/120; T _a = 45 °C; W1C	74 (100) 125 / 176 182 / 250 146	A A A
Iтsм i²t	T_{vj} = 25 °C ; 10 ms T_{vj} = 130 °C ; 10 ms T_{vj} = 25 °C ; 8,310 ms T_{vj} = 130 °C ; 8,310 ms	2000 1750 20000 15300	A A A ² s A ² s
VT VT(TO) IT IDD; IRD	$\begin{split} T_{vj} &= 25 \text{ °C, } I_T = 300 \text{ A} \\ T_{vj} &= 130 \text{ °C} \\ T_{vj} &= 130 \text{ °C} \\ T_{vj} &= 130 \text{ °C; } V_{RD} = V_{RRM}; V_{DD} = V_{DRM} \\ \end{split}$ $T_{vj} &= 25 \text{ °C; } I_G = 1\text{ A; } \text{dig/dt} = 1 \text{ A/}\mu\text{s} \end{split}$	max. 1,75 max. 1 max. 2,4 max. 30	V V mΩ mA
$\begin{array}{c} t_{gr} \\ (d_i/d_t)_{cr} \\ (d_V/d_t)_{cr} \\ t_q \\ I_H \\ I_L \end{array}$	$V_D = 0.67 * V_{DRM}$ $T_{vj} = 130 °C$ $T_{vj} = 130 °C; D (E)$ $T_{vj} = 130 °C$ $T_{vj} = 25 °C; typ. / max$ $T_{vj} = 25 °C; typ. / max$	2 max. 50 500 (1000) 100 150 / 250 300 / 600	μs A/μs V/μs μs mA mA
VGT IGT VGD IGD	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$ $T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$ $T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$ $T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	min. 3 min. 150 max. 0,25 max. 10	V mA V mA
$R_{th(j\text{-}c)} \\ R_{th(j\text{-}c)} \\ R_{th(j\text{-}c)} \\ R_{th(c\text{-}s)} \\ T_{vj} \\ T_{stg}$	cont. sin. 180 rec. 120	0,25 0,28 0,31 0,08 -40+130 -55+150	K/W K/W K/W K/W °C °C
V _{isol} Ms a m	M12 or ½" - 20 UNF M12 or ½" - 20 UNF (lubricated)1) approx.	- 10 7,5 5 * 9,81 100	V~ Nm Nm m/s² g
Case		B5	

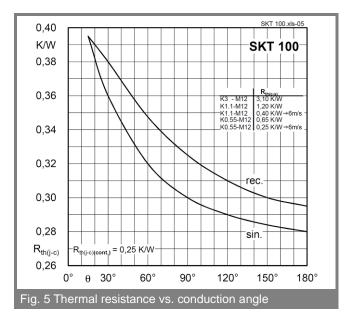


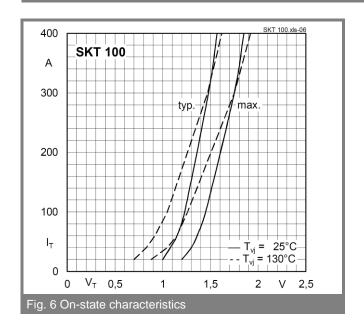


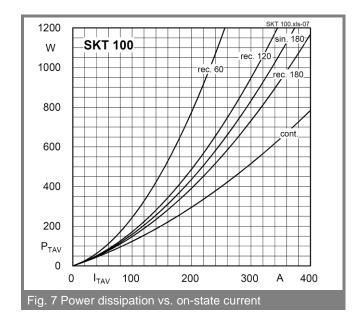


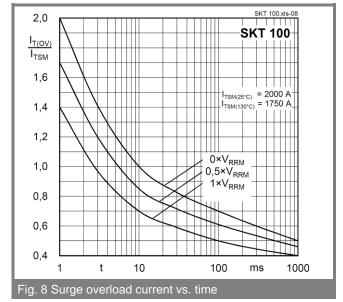


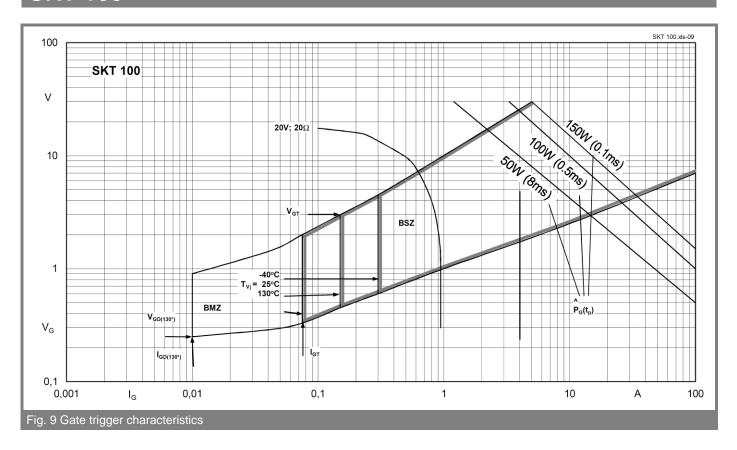


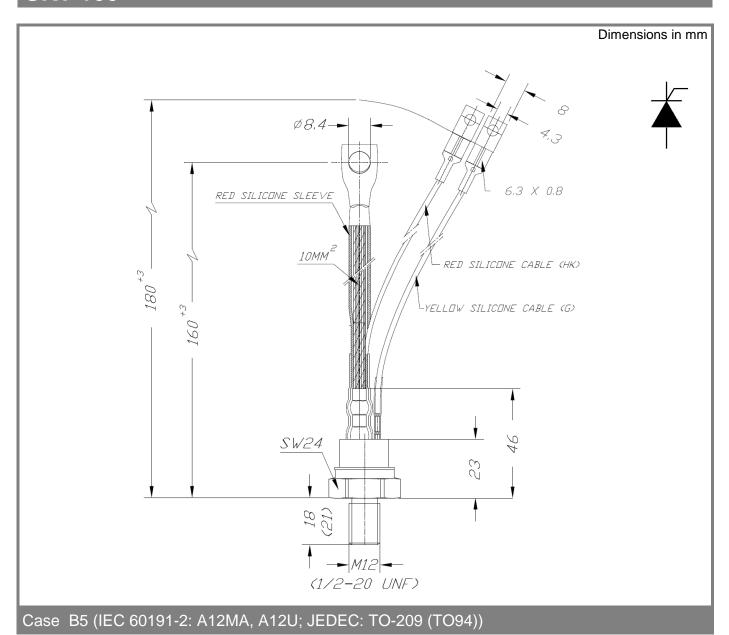












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