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Stud Thyristor

Line Thyristor

SKT 50

Features

- Hermetic metal case with glass insulator
- Threaded stud ISO M8 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 (e. g. for temperature control)
- Recommended snubber network e. g. for $V_{VRMS} \leq 400$ V:
 $R = 68 \Omega / 11$ W, $C = 0,22 \mu F$

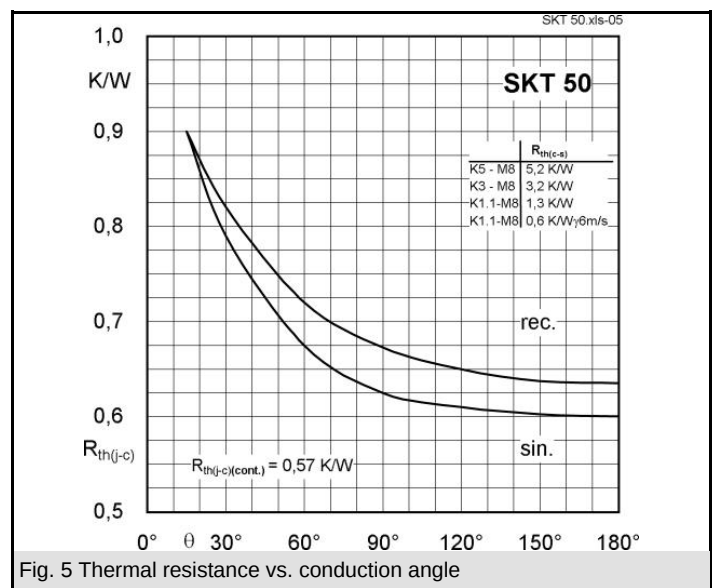
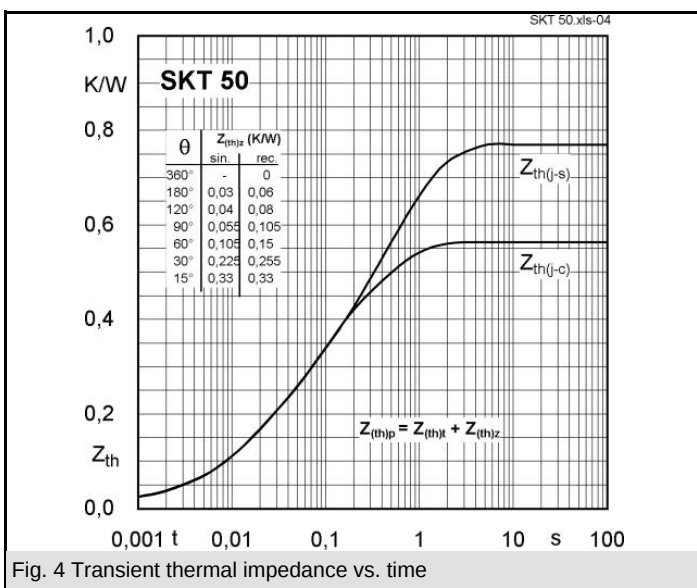
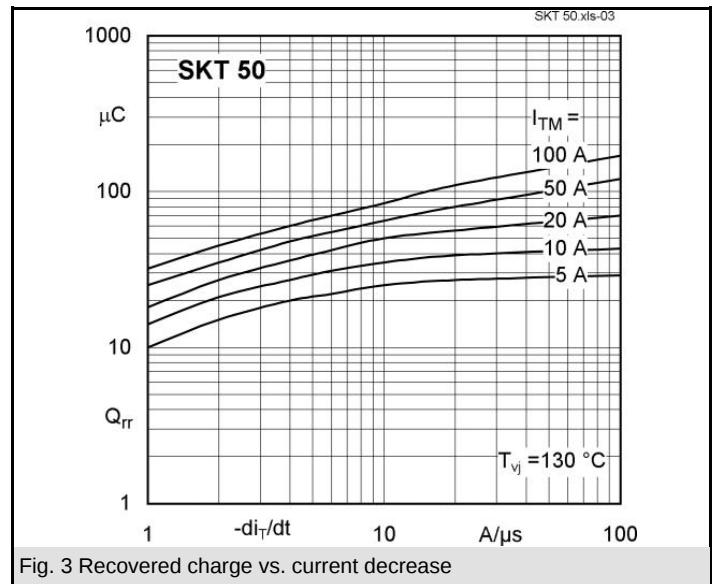
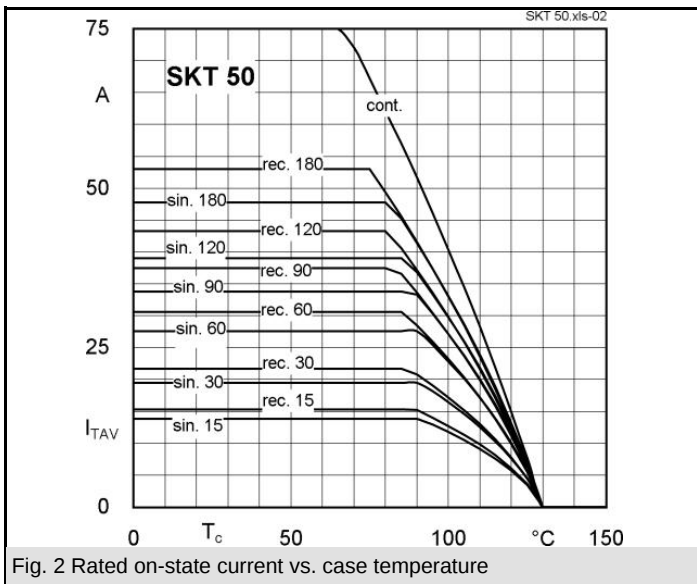
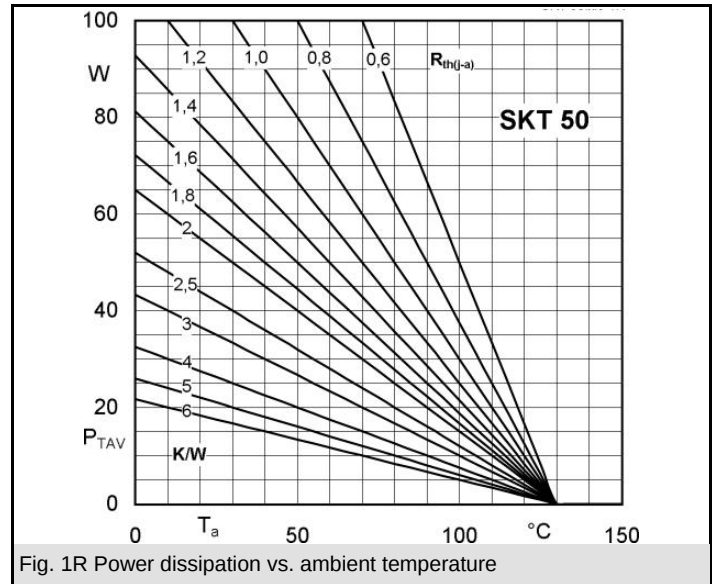
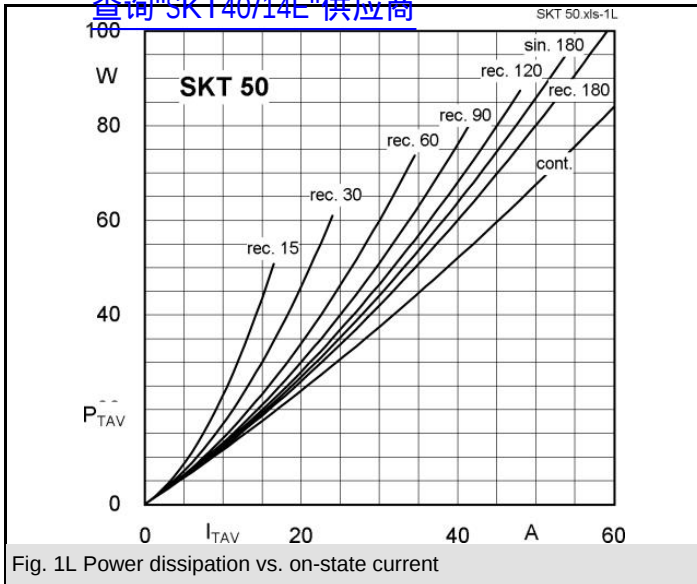
1) Available with UNF thread 1/4-28 UNF2A, e. g. SKT 50/06D UNF

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_{TRMS} = 78$ A (maximum value for continuous operation) $I_{TAV} = 50$ A (sin. 180; $T_c = 78$ °C)		
700	600	SKT 50/06D ¹⁾		
900	800	SKT 50/08D		
1300	1200	SKT 50/12E ¹⁾		
1500	1400	SKT 50/14E ¹⁾		
1700	1600	SKT 50/16E ¹⁾		
1900	1800	SKT 50/18E		

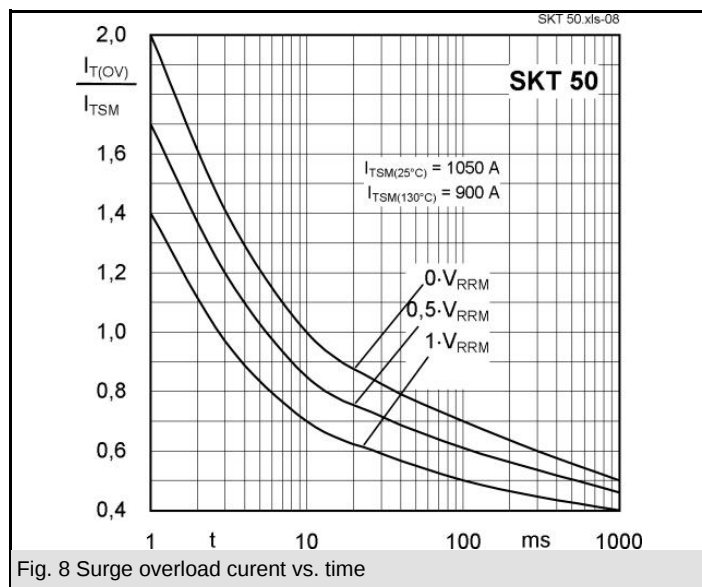
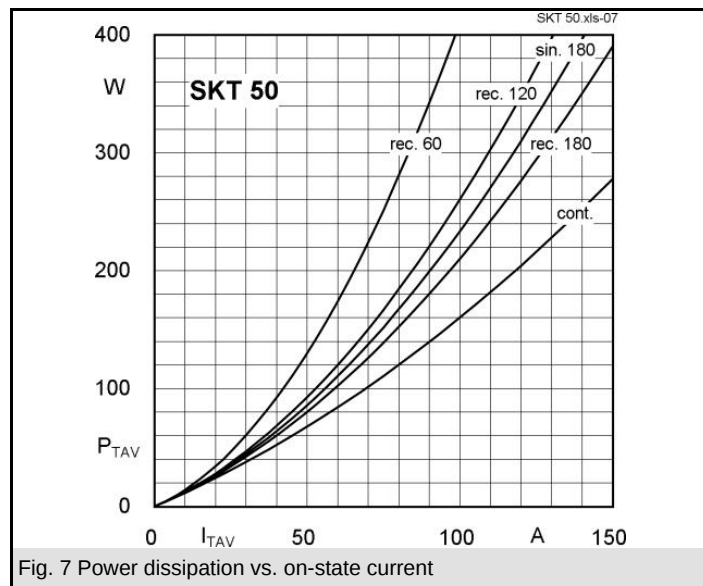
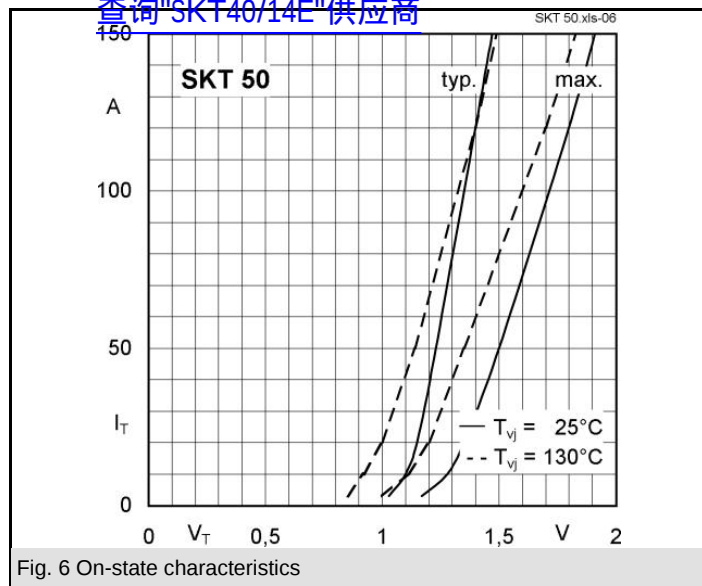
Symbol	Conditions	Values	Units
I_{TAV}	sin. 180; $T_c = 100$ (85) °C;	33 (45)	A
I_D	K5; $T_a = 45$ °C; B2 / B6	25 / 36	A
	K3; $T_a = 45$ °C; B2 / B6	36 / 50	A
I_{RMS}	K3; $T_a = 45$ °C; W1C	40	A
I_{TSM}	$T_{vj} = 25$ °C; 10 ms	1050	A
	$T_{vj} = 130$ °C; 10 ms	900	A
i^2t	$T_{vj} = 25$ °C; 8,35 ... 10 ms	5000	A²s
	$T_{vj} = 130$ °C; 8,35 ... 10 ms	4000	A²s
V_T	$T_{vj} = 25$ °C; $I_T = 120$ A	max. 1,8	V
$V_{T(TO)}$	$T_{vj} = 130$ °C	max. 1,1	V
r_T	$T_{vj} = 130$ °C	max. 5	mΩ
I_{DD}, I_{RD}	$T_{vj} = 130$ °C; $V_{RD} = V_{RRM}, V_{DD} = V_{DRM}$	max. 8	mA
t_{gd}	$T_{vj} = 25$ °C; $I_G = 1$ A; $di_G/dt = 1$ A/μs	1	μs
t_{gr}	$V_D = 0,67 \cdot V_{DRM}$	1,5	μs
$(di/dt)_{cr}$	$T_{vj} = 130$ °C	max. 50	A/μs
$(dv/dt)_{cr}$	$T_{vj} = 130$ °C; SKT ...D / SKT ...E	max. 500 / 1000	V/μs
t_q	$T_{vj} = 130$ °C	100	μs
I_H	$T_{vj} = 25$ °C; typ. / max.	100 / 200	mA
I_L	$T_{vj} = 25$ °C; $R_G = 33 \Omega$; typ. / max.	250 / 400	mA
V_{GT}	$T_{vj} = 25$ °C; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25$ °C; d.c.	min. 150	mA
V_{GD}	$T_{vj} = 130$ °C; d.c.	max. 0,25	V
I_{GD}	$T_{vj} = 130$ °C; d.c.	max. 5	mA
$R_{th(j-c)}$	cont.	0,57	K/W
$R_{th(j-c)}$	sin. 180	0,6	K/W
$R_{th(j-c)}$	rec. 120	0,65	K/W
$R_{th(c-s)}$		0,2	K/W
T_{vj}		- 40 ... + 130	°C
T_{stg}		- 55 ... + 150	°C
V_{isol}		-	V~
M_s	to heatsink	4 (UNF: 2,5)	Nm
a		5 * 9,81	m/s²
m	approx.	2,2	g
Case		B 3	

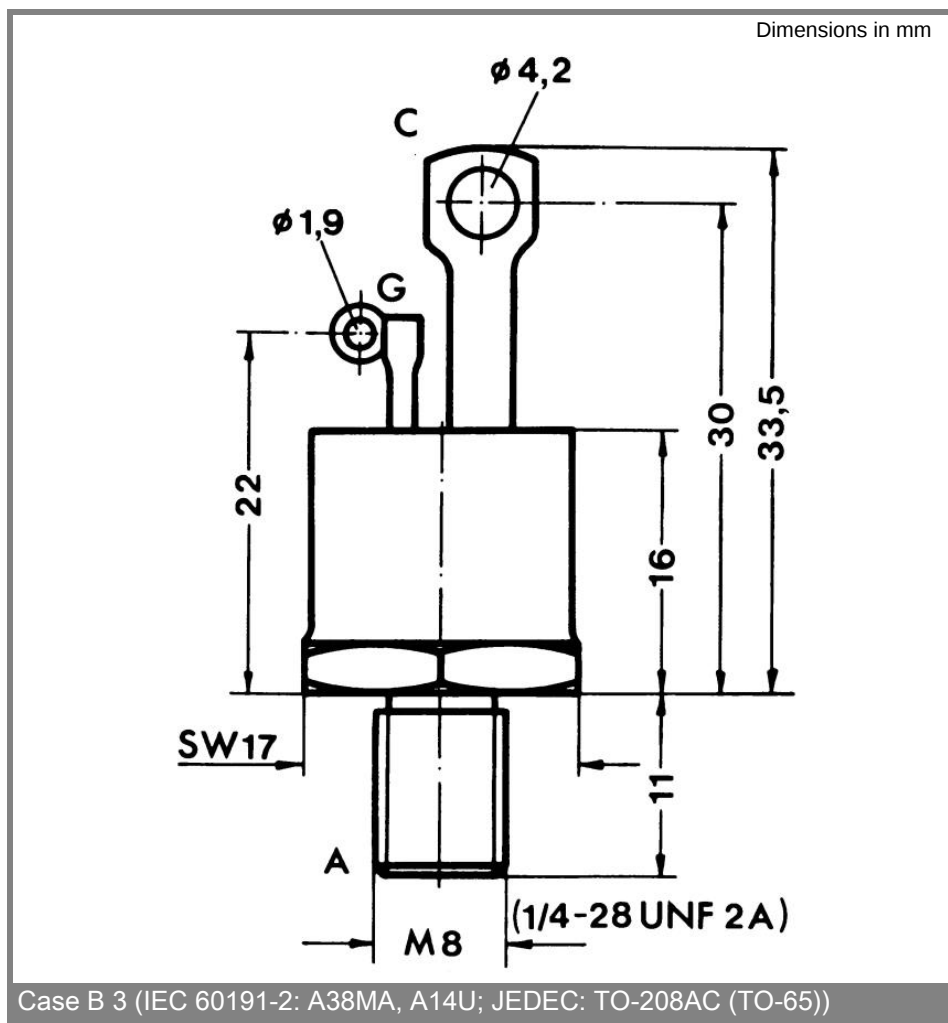
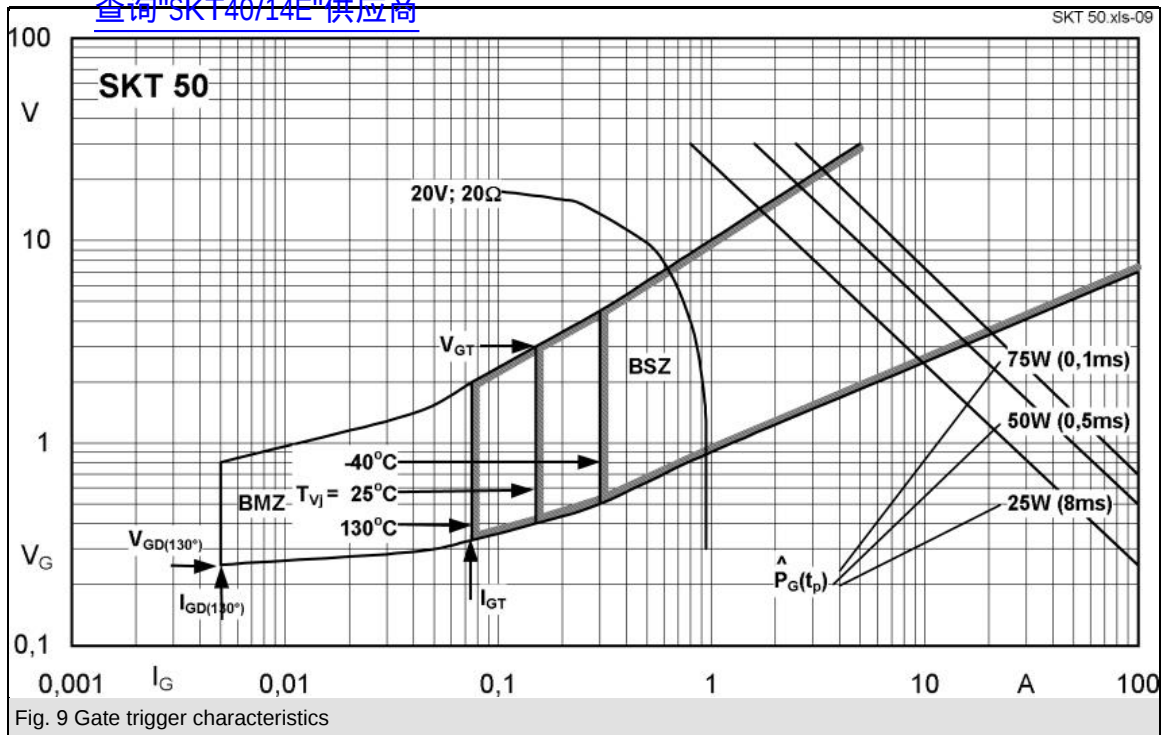


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