



Thyristor Diode Modules

LiuJing rectifier co., Ltd.

V_{RSM}	V_{RRM}	$I_{TRMS} = 180A$ (maximum value for continuous operation)		
V	V	$I_{AV} = 106A$ (sin.180; $T_c=85^\circ C$)		
900	800	SKKT 106/08E	SKKT 106B08E	SKKH 106/08E
1300	1200	SKKT 106/12E	SKKT 106B12E	SKKH 106/12E
1500	1400	SKKT 106/14E	SKKT 106B14E	SKKH 106/14E
1700	1600	SKKT 106/16E	SKKT 106B16E	SKKH 106/16E
1900	1800	SKKT 106/18E	SKKT 106B18E	SKKH 106/18E

Symbol	Conditions	Values	Units
I_{AV}	sin. 180; $T_c = 85(100)^\circ C$;	106 (78)	A
I_d	P3/180F; $T_a = 35^\circ C$; B2 / B6	145 / 180	A
I_{RMS}	P16/200F; $T_a = 35^\circ C$; B2 / B6	190 / 260	A
	P3/180F; $T_a = 35^\circ C$; W1 / W3	200 / 3 * 140	A
I_{TSM}	$T_{vj} = 25^\circ C$; 10ms	2250	A
	$T_{vj} = 130^\circ C$; 10ms	1900	A
i^2t	$T_{vj} = 25^\circ C$; 8, 3 ...10ms	25000	A^2S
	$T_{vj} = 130^\circ C$; 8, 3 ...10ms	1800	A^2S
V_T	$T_{vj} = 25^\circ C$; $I_t=318A$	max.1.65	V
$V_{T(TO)}$	$T_{vj} = 130^\circ C$	max.0.9	V
r_T	$T_{vj} = 130^\circ C$	max.2	$m\Omega$
$I_{DD}; I_{RD}$	$T_{vj} = 130^\circ C$; $V_{RD}=V_{RRM}$; $V_{DD}=V_{DRM}$	max.20	mA
t_{gd}	$T_{vj} = 25^\circ C$; $I_g = 1A$; $di/dt = A/\mu s$	1	μs
t_{gr}	$V_D = 0.67*V_{DRM}$	2	μs
$(di/dt)_{cr}$	$T_{vj} = 130^\circ C$	max.150	$A/\mu s$
$(dv/dt)_{cr}$	$T_{vj} = 130^\circ C$	max.1000	$V/\mu s$
t_q	$T_{vj} = 130^\circ C$	250	μs
I_H	$T_{vj} = 25^\circ C$; typ./max	150 / 250	mA
I_L	$T_{vj} = 25^\circ C$; $RG = 33\Omega$; typ./max	300 / 600	mA
V_{GT}	$T_{vj} = 25^\circ C$; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25^\circ C$; d.c.	min. 150	mA
V_{GD}	$T_{vj} = 130^\circ C$; d.c.	max. 0.25	V
I_{GD}	$T_{vj} = 130^\circ C$; d.c.	max. 6	mA
$R_{th(j-c)}$	cont.; per thyristor/per module	0.28 / 0.14	K/W
$R_{th(j-c)}$	sin. 180; per thyristor/per module	0.3 / 0.15	K/W
$R_{th(j-c)}$	rec. 120; per thyristor/per module	0.32 / 0.16	K/W
$R_{th(j-c)}$	per thyristor/per module	0.2 / 0.1	K/W
T_{vj}		- 40...+ 130	°C
T_{stg}		- 40...+ 125	°C
V_{isol}	a. c. 50Hz; r.m.	3600 / 3000	V~
M_s	to heatsink	$5 \pm 15\%^1)$	Nm
M_t	to terminal	$3 \pm 15\%$	Nm
a		5 * 9.81	m/s^2
m	approx.	95	g
Case	SKKT SKKT ...B SKKH	A 46 A 47 A 48	

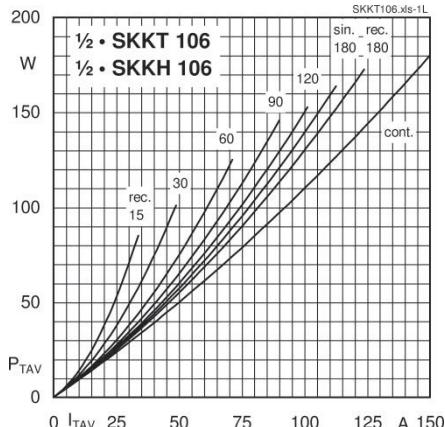


Fig. 1L Power dissipation per thyristor vs. on-state current

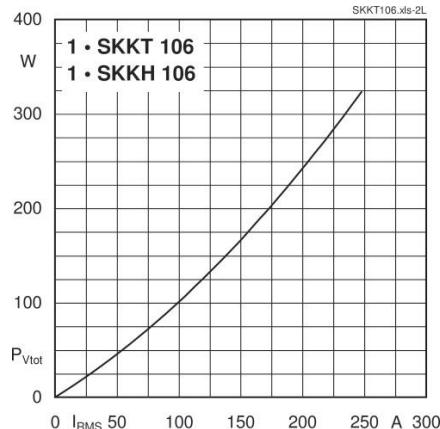


Fig. 2L Power dissipation per module vs. rms current

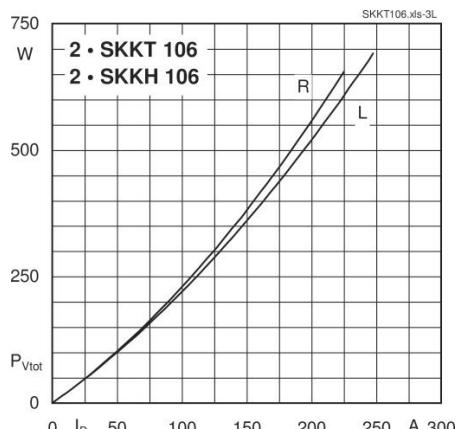


Fig. 3L Power dissipation of two modules vs. direct current

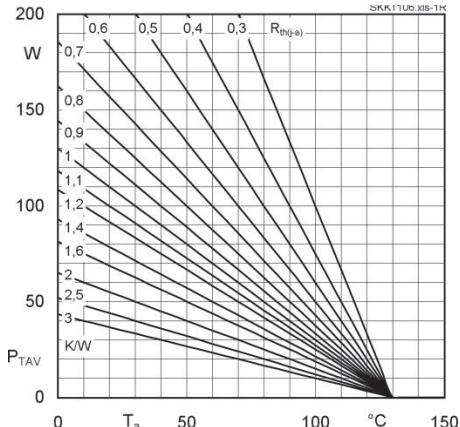


Fig. 1R Power dissipation per thyristor vs. ambient temp.

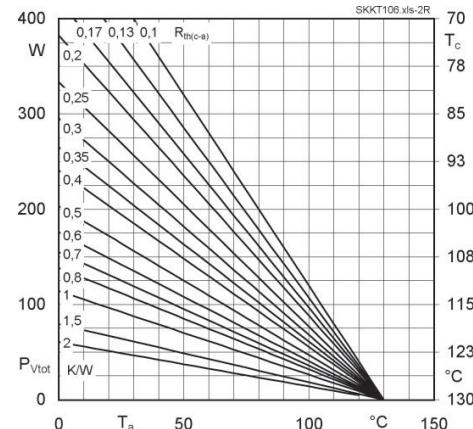


Fig. 2R Power dissipation per module vs. case temp.

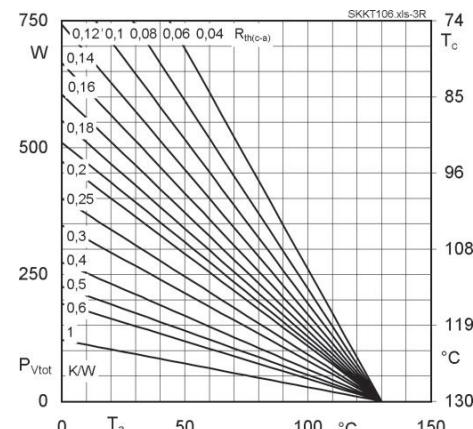


Fig. 3R Power dissipation of two modules vs. case temp.

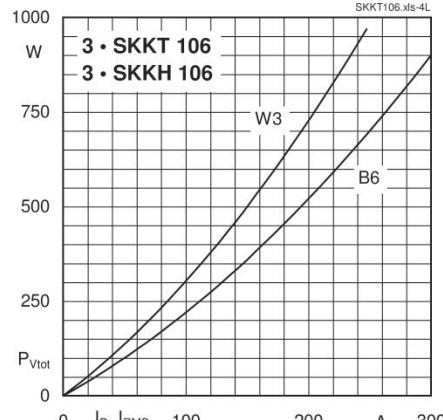


Fig. 4L Power dissipation of three modules vs. direct and rms current

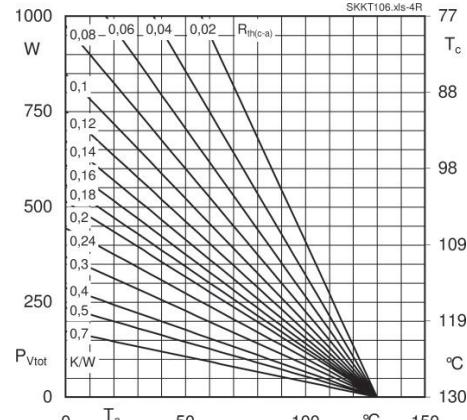


Fig. 4R Power dissipation of three modules vs. case temp.

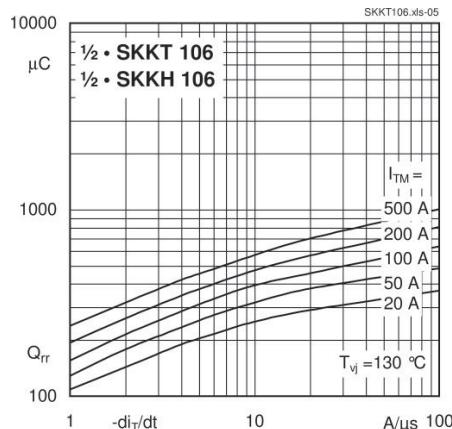


Fig. 5 Recovered charge vs. current decrease

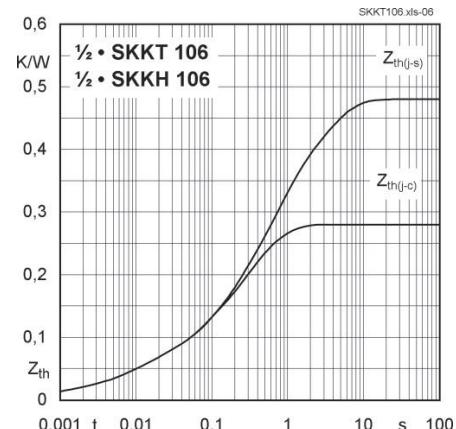


Fig. 6 Transient thermal impedance vs. time

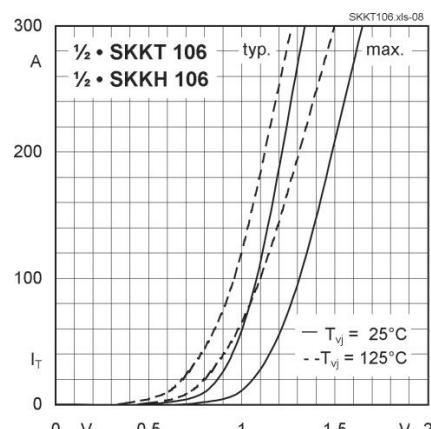


Fig. 7 On-state characteristics

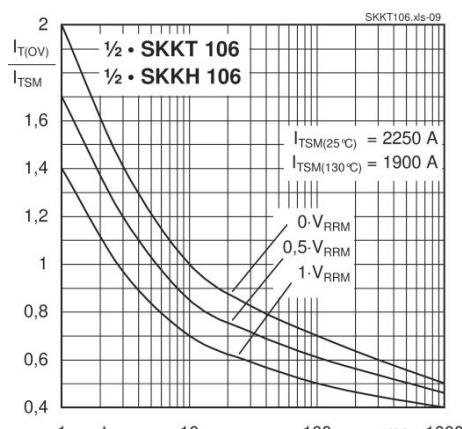
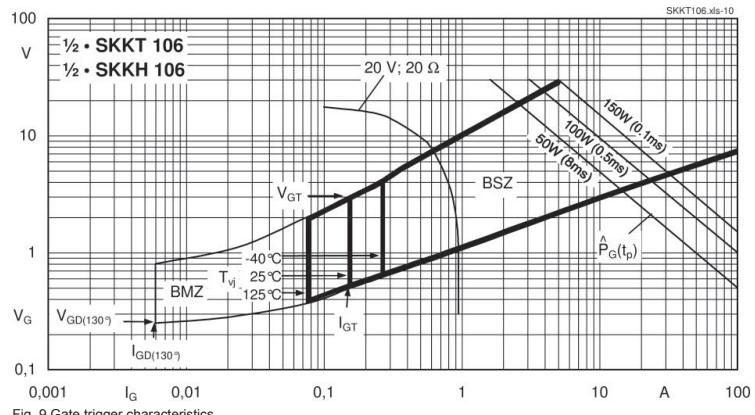
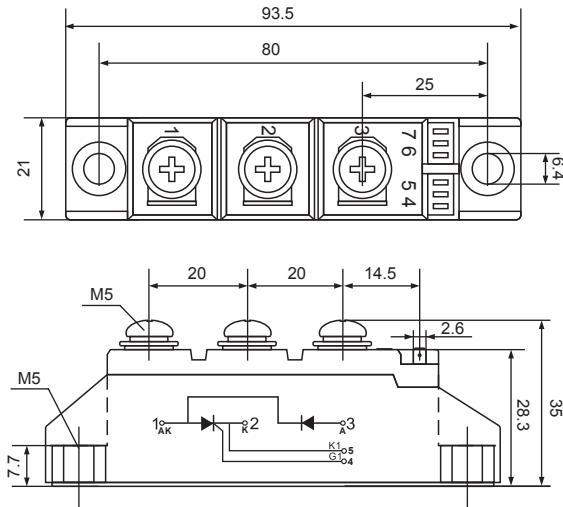


Fig. 8 Surge overload current vs. time



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