

SKKT 56, SKKH 56



SEMIPACK[®] 1

Thyristor / Diode Modules

SKKT 56

SKKH 56

Features

- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

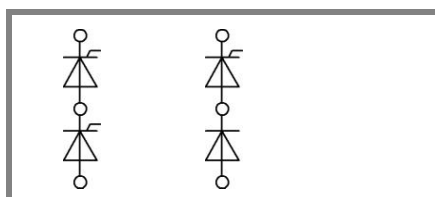
Typical Applications

- DC motor control (e. g. for machine tools)
- AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)

1) See the assembly instructions

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_{TRMS} = 95$ A (maximum value for continuous operation) $I_{TAV} = 55$ A (sin. 180; $T_c = 80$ °C)	
500	400		SKKH 56/04D
700	600	SKKT 56/06E	SKKH 56/06D
900	800	SKKT 56/08E	SKKH 56/08D
1300	1200	SKKT 56/12E	SKKH 56/12E
1500	1400	SKKT 56/14E	SKKH 56/14E
1700	1600	SKKT 56/16E	SKKH 56/16E
1900	1800	SKKT 56/18E	SKKH 56/18E

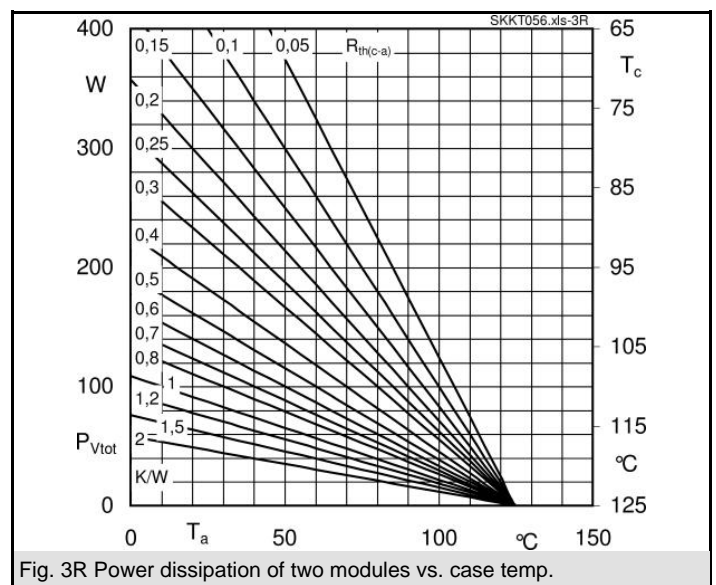
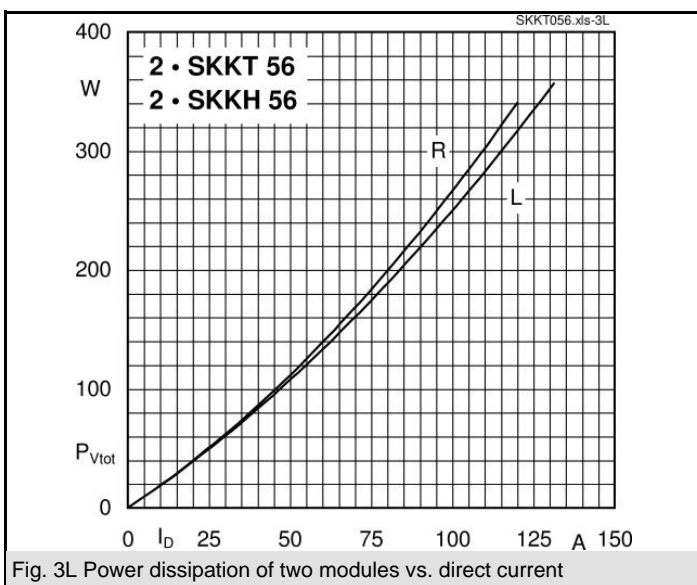
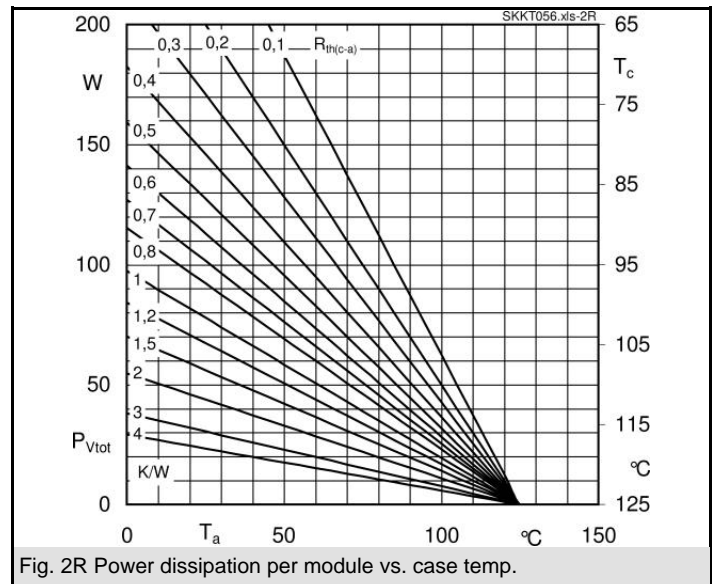
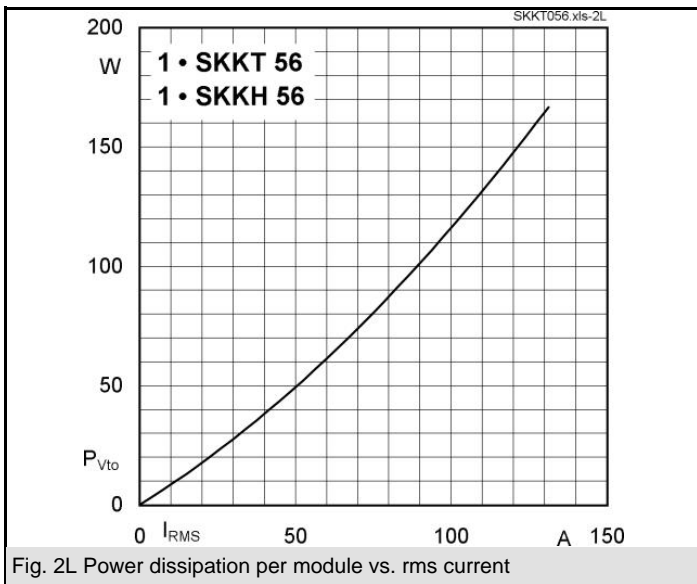
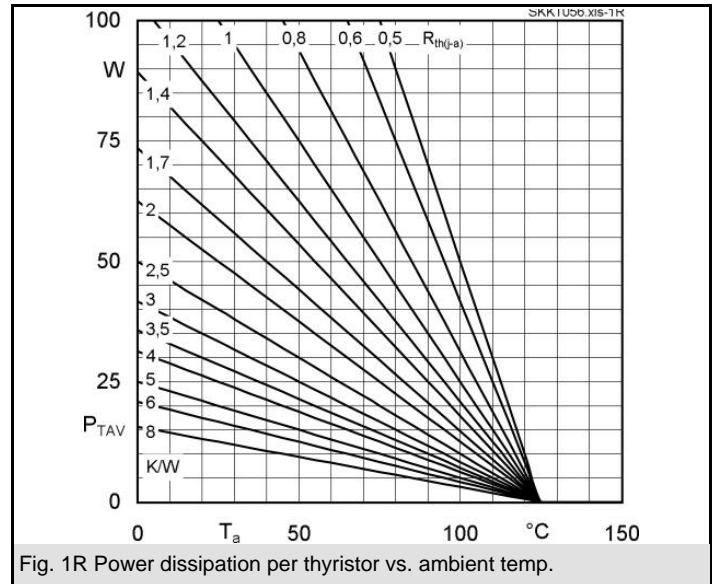
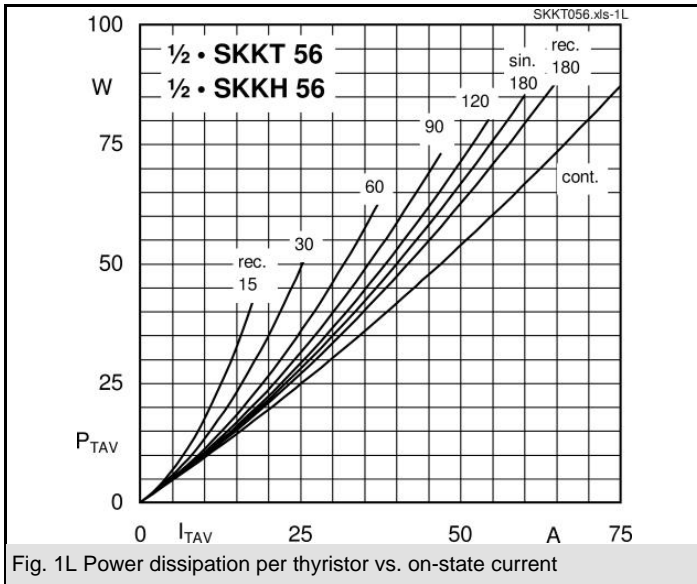
Symbol	Conditions	Values	Units
I_{TAV}	sin. 180; $T_c = 85$ (100) °C	50 (35)	A
I_D	P3/180; $T_a = 45$ °C; B2 / B6	57 / 68	A
	P3/180F; $T_a = 35$ °C; B2 / B6	100 / 130	A
I_{RMS}	P3/180F; $T_a = 35$ °C; B2 / B6	130 / 3 * 100	A
I_{TSM}	$T_{vj} = 25$ °C; 10 ms	1500	A
	$T_{vj} = 125$ °C; 10 ms	1250	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	11000	A ² s
	$T_{vj} = 125$ °C; 8,3 ... 10 ms	8000	A ² s
V_T	$T_{vj} = 25$ °C; $I_T = 200$ A	max. 1,65	V
$V_{T(TO)}$	$T_{vj} = 125$ °C	0,9	V
r_T	$T_{vj} = 125$ °C	3,5	mΩ
I_{DD}, I_{RD}	$T_{vj} = 125$ °C; $V_{RD} = V_{RRM}, V_{DD} = V_{DRM}$	max. 15	mA
t_{gd}	$T_{vj} = 25$ °C; $I_G = 1$ A; $di_G/dt = 1$ A/μs	1	μs
t_{gr}	$V_D = 0,67 * V_{DRM}$	2	μs
$(di/dt)_{cr}$	$T_{vj} = 125$ °C	max. 150	A/μs
$(dv/dt)_{cr}$	$T_{vj} = 125$ °C; SKK ...D / SKK ...E	max. 500 / 1000	V/μs
t_q	$T_{vj} = 125$ °C	80	μs
I_H	$T_{vj} = 25$ °C; typ. / max.	150 / 250	mA
I_L	$T_{vj} = 25$ °C; $R_G = 33$ Ω; typ. / max.	300 / 600	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}	$T_{vj} = 125$ °C; d.c.	max. 0,25	V
I_{GD}	$T_{vj} = 125$ °C; d.c.	max. 6	mA
$R_{th(j-c)}$	cont.; per thyristor / per module	0,57 / 0,29	K/W
$R_{th(j-c)}$	sin. 180; per thyristor / per module	0,6 / 0,3	K/W
$R_{th(j-c)}$	rec. 120; per thyristor / per module	0,64 / 0,32	K/W
$R_{th(c-s)}$	per thyristor / per module	0,2 / 0,1	K/W
T_{vj}		- 40 ... + 125	°C
T_{stg}		- 40 ... + 125	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M_s	to heatsink	5 ± 15 % ¹⁾	Nm
M_t	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s ²
m	approx.	95	g
Case	SKKT	A 5	
	SKKH	A 6	



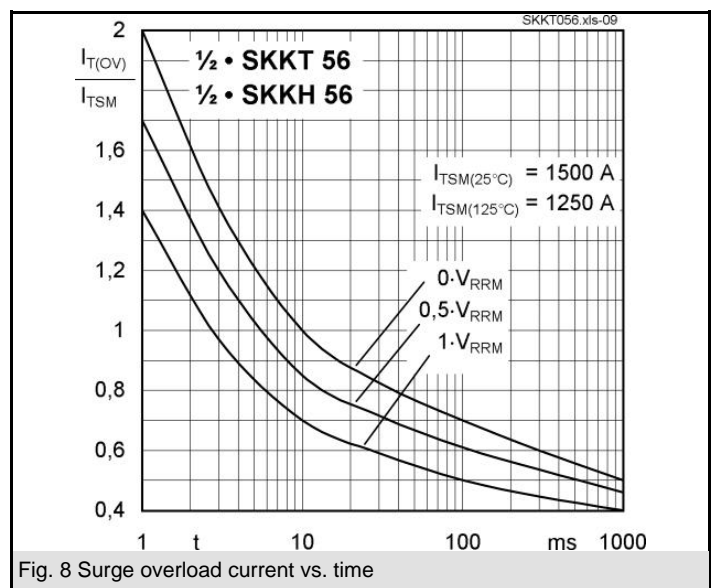
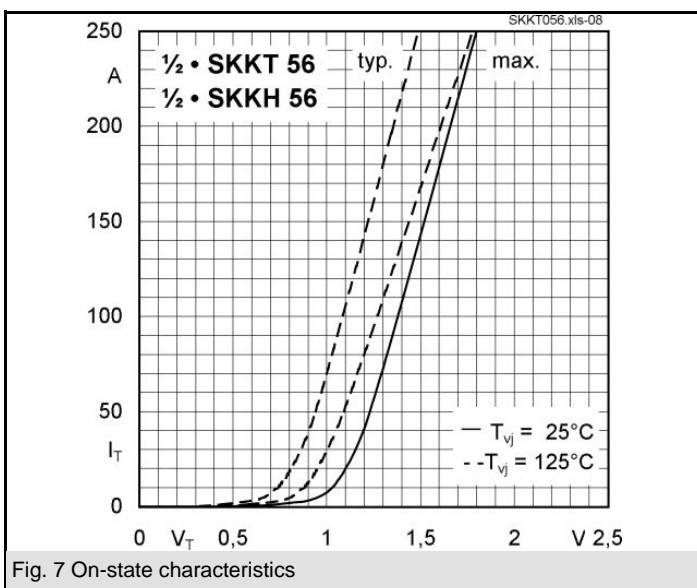
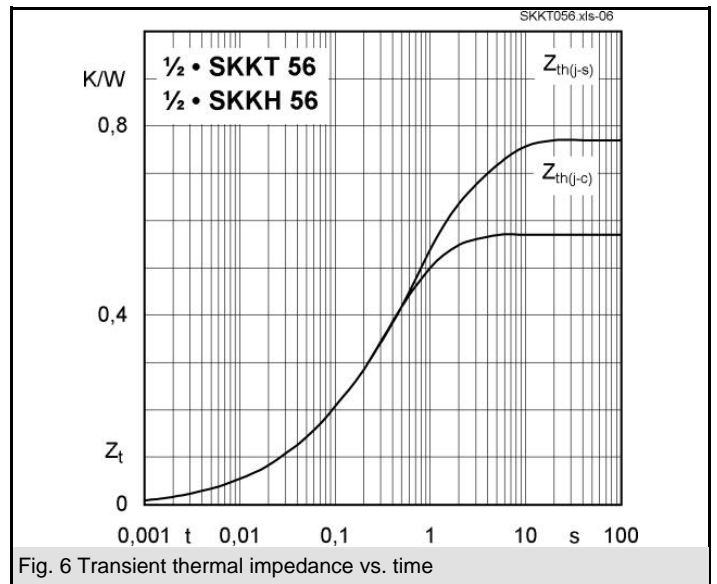
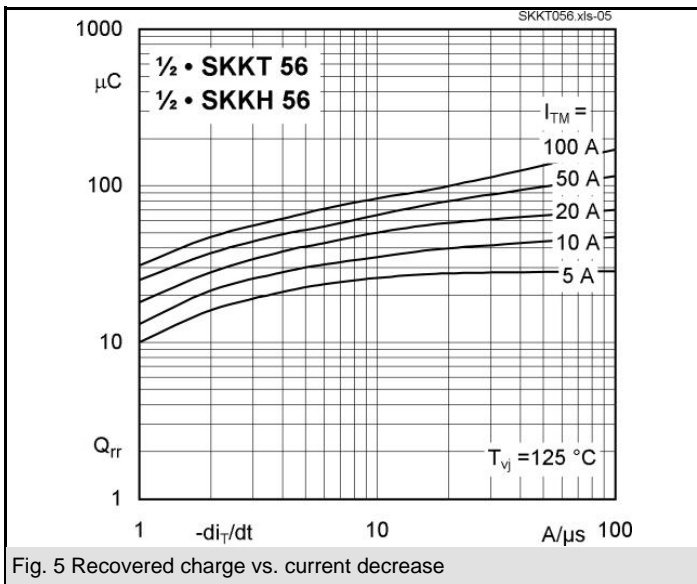
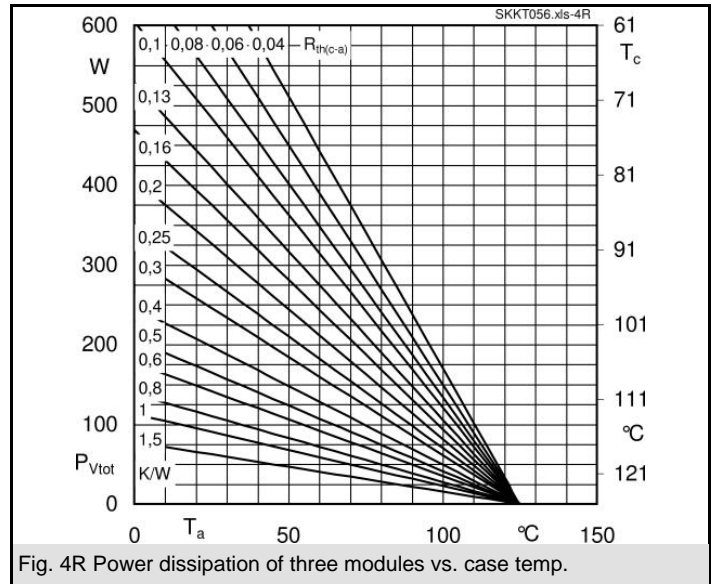
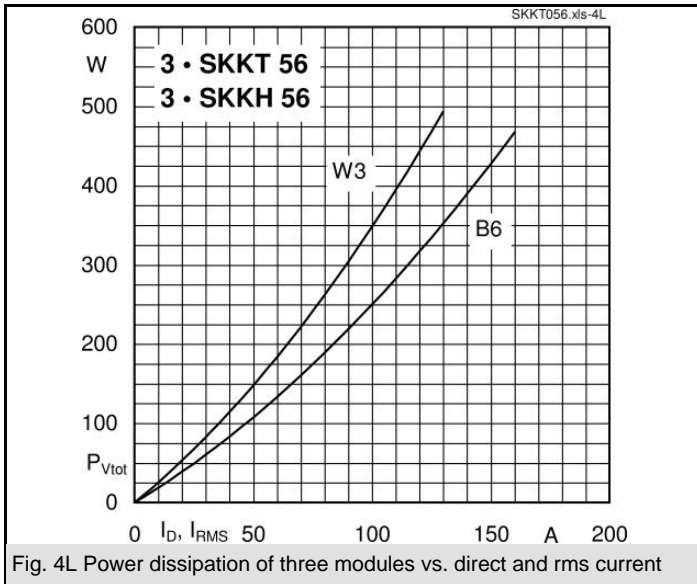
SKKT

SKKH

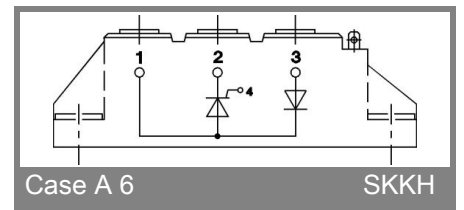
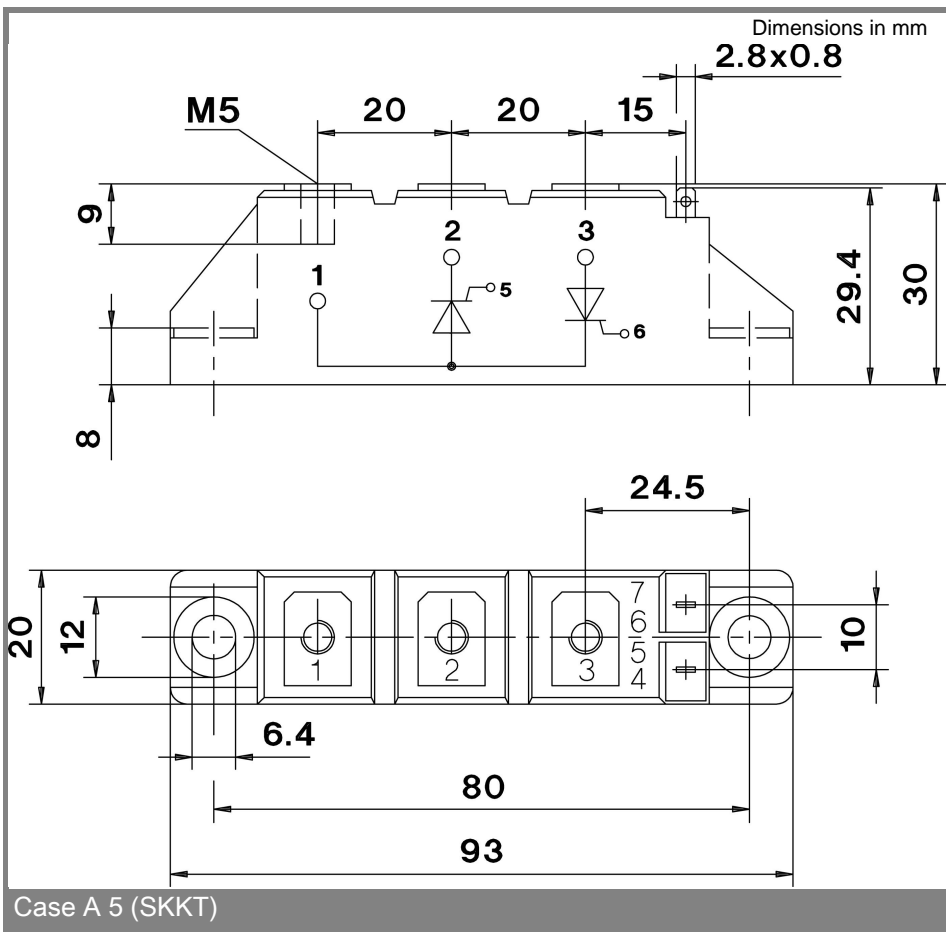
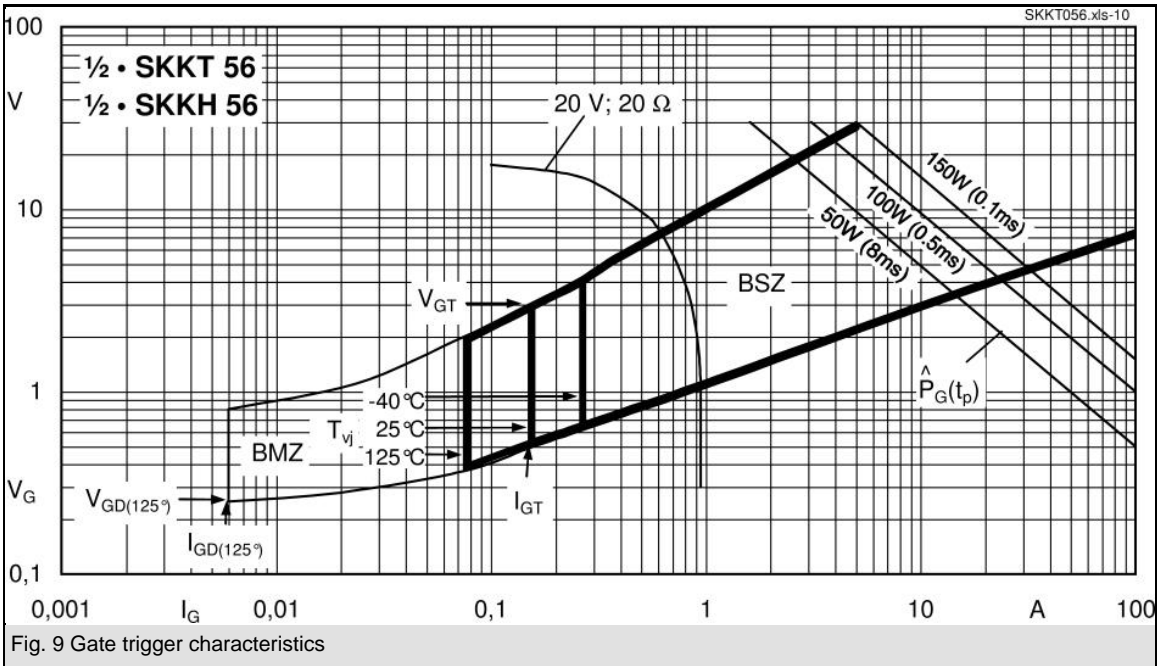
SKKT 56, SKKH 56



SKKT 56, SKKH 56



SKKT 56, SKKH 56



This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.