

SKKT 430, SKKH 430



SEMIPACK® 5

Thyristor / Diode Modules

SKKT 430

SKKH 430

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

Typical Applications

- AC motor softstarters
- Input converters for AC inverter drives
- DC motor control (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)

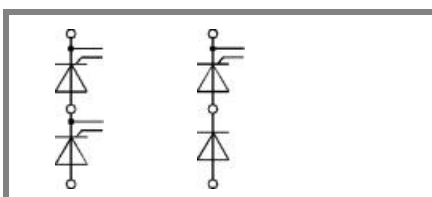
1) See the assembly instructions

2) The screws must be lubricated

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_{TRMS} = 700$ A (maximum value for continuous operation) $I_{TAV} = 430$ A (sin. 180; $T_c = 86$ °C)	
1700	1600	SKKT 430/16E	SKKH 430/16E
2000	2000	SKKT 430/20EH4	SKKH 430/20EH4
2200	2200	SKKT 430/22EH4	SKKH 430/22EH4

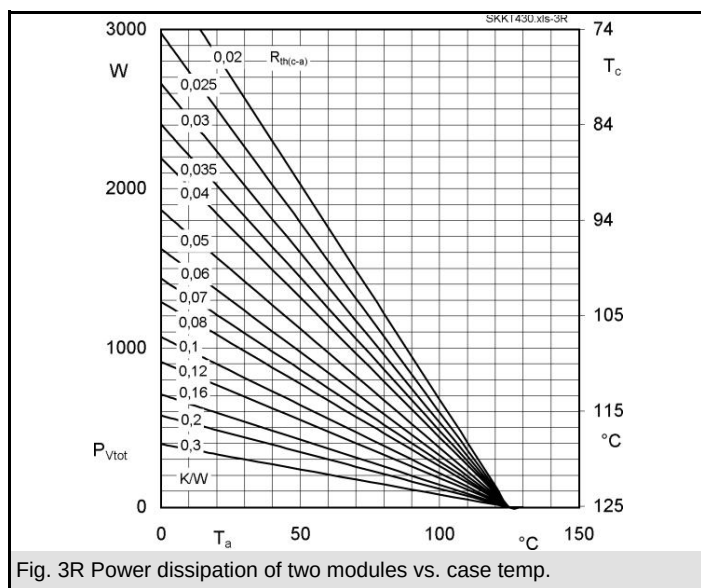
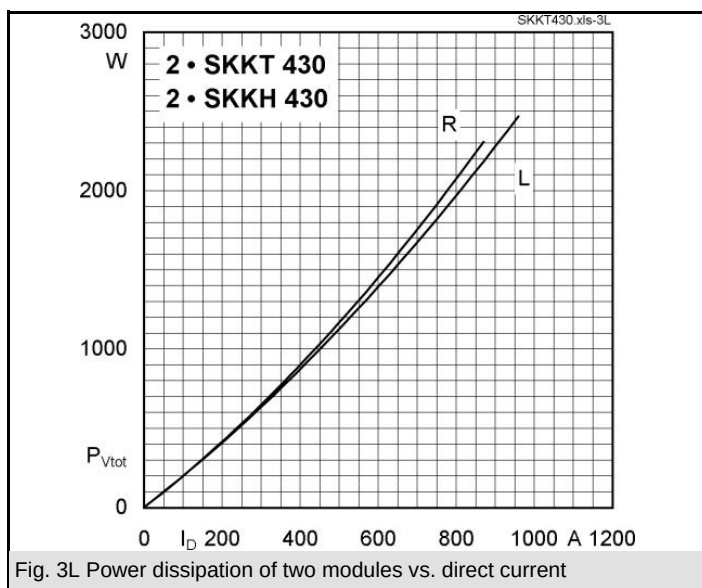
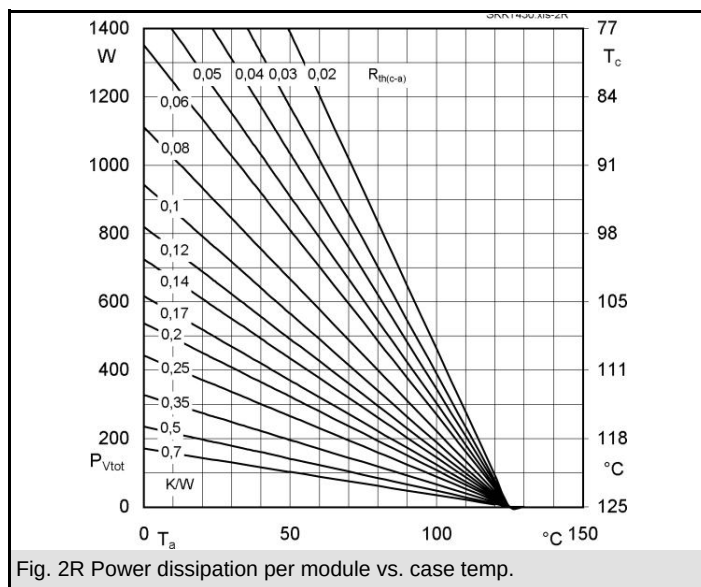
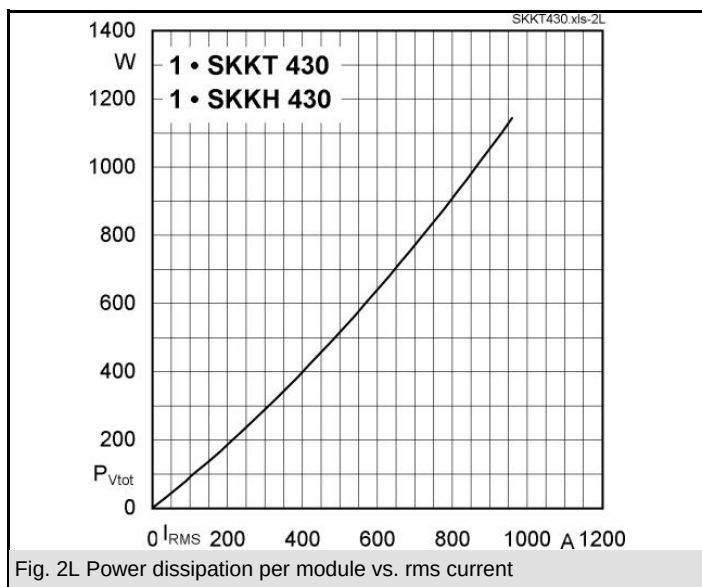
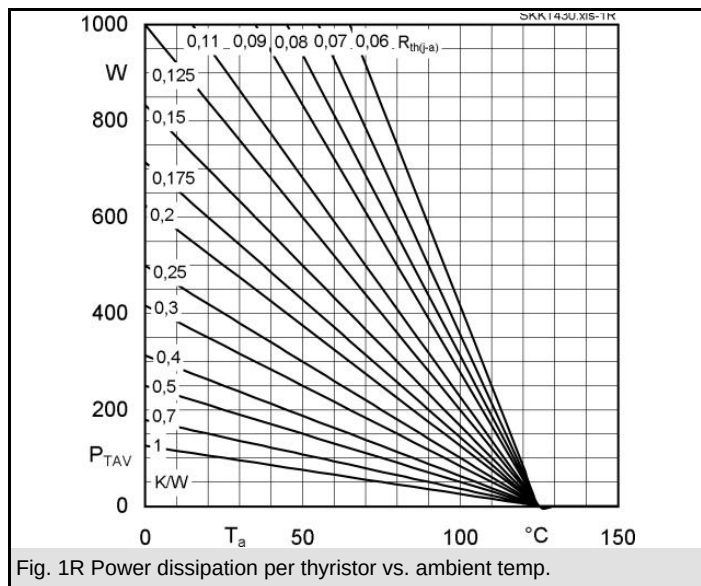
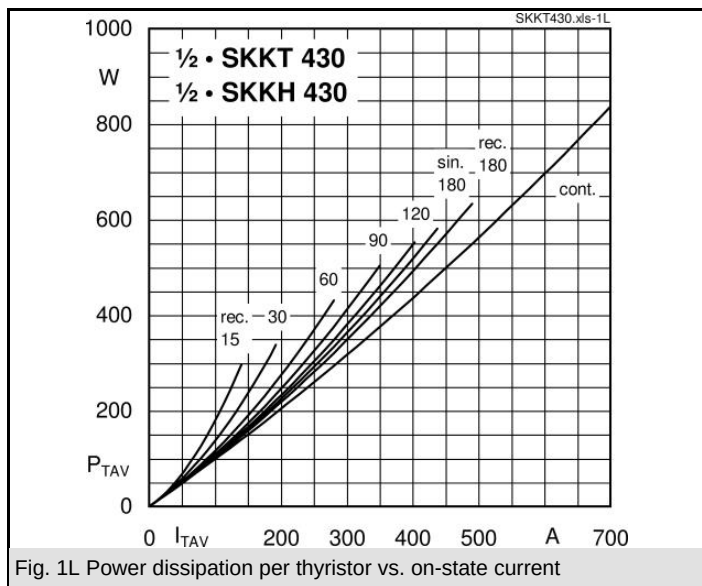
Symbol	Conditions	Values	Units
I_{TAV}	sin. 180; $T_c = 85$ (100) °C;	440 (305)	A
I_D	P16/300F; $T_a = 35$ °C; B6	820	A
I_{RMS}	P16/300F; $T_a = 35$ °C; W3C	3 * 630	A
I_{TSM}	$T_{vj} = 25$ °C; 10 ms	15000	A
	$T_{vj} = 125$ °C; 10 ms	13000	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	1125000	A²s
	$T_{vj} = 125$ °C; 8,3 ... 10 ms	845000	A²s
V_T	$T_{vj} = 25$ °C; $I_T = 1700$ A	max. 1,65	V
$V_{T(TO)}$	$T_{vj} = 125$ °C	max. 0,95	V
r_T	$T_{vj} = 125$ °C	max. 0,35	mΩ
I_{DD}, I_{RD}	$T_{vj} = 125$ °C; $V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 100	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. 200	A/μs
$(dv/dt)_{cr}$	$T_{vj} = 125$ °C	max. 1000	V/μs
t_q	$T_{vj} = 125$ °C	100 ... 200	μs
I_H	$T_{vj} = 25$ °C; typ. / max.	150 / 500	mA
I_L	$T_{vj} = 25$ °C; $R_G = 33$ Ω; typ. / max.	300 / 2000	mA
V_{GT}	$T_{vj} = 25$ °C; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25$ °C; d.c.	min. 200	mA
V_{GD}	$T_{vj} = 130$ °C; d.c.	max. 0,25	V
I_{GD}	$T_{vj} = 130$ °C; d.c.	max. 10	mA
$R_{th(j-c)}$	cont.; per thyristor / per module	0,065 / 0,032	K/W
$R_{th(j-c)}$	sin. 180; per thyristor / per module	0,068 / 0,034	K/W
$R_{th(j-c)}$	rec. 120; per thyristors / per module	0,073 / 0,036	K/W
$R_{th(c-s)}$	per thyristor / per module	0,02 / 0,01	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~
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKK ...H4	4800 / 4000	V~
M_s	to heatsink	5 ± 15 % ¹⁾	Nm
M_t	to terminal	12 ± 15 % ²⁾	Nm
a		5 * 9,81	m/s²
m	approx.	1420	g
Case	SKKT	A 60 a	
	SKKH	A 66 a	

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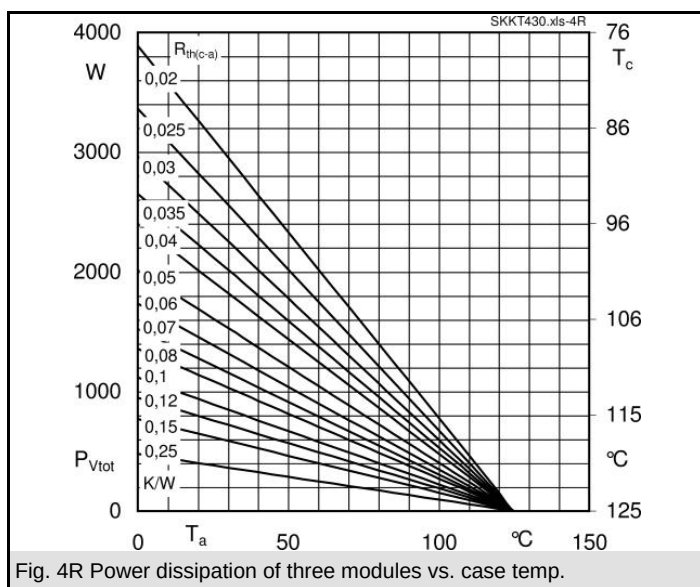
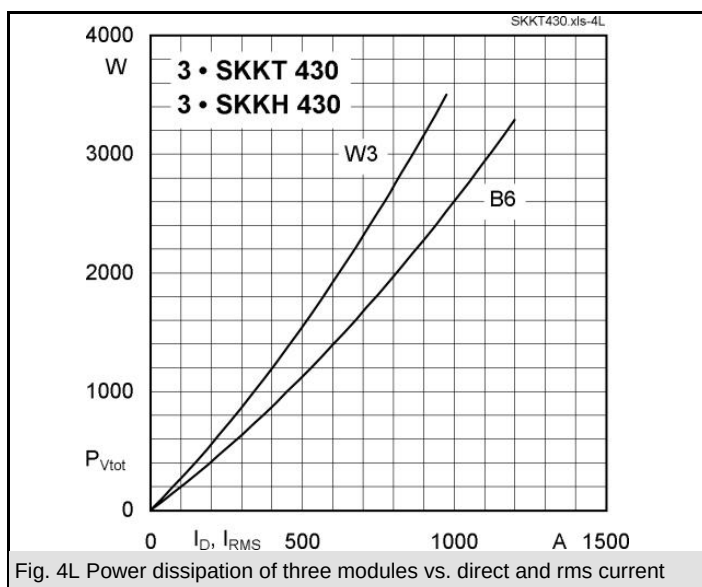
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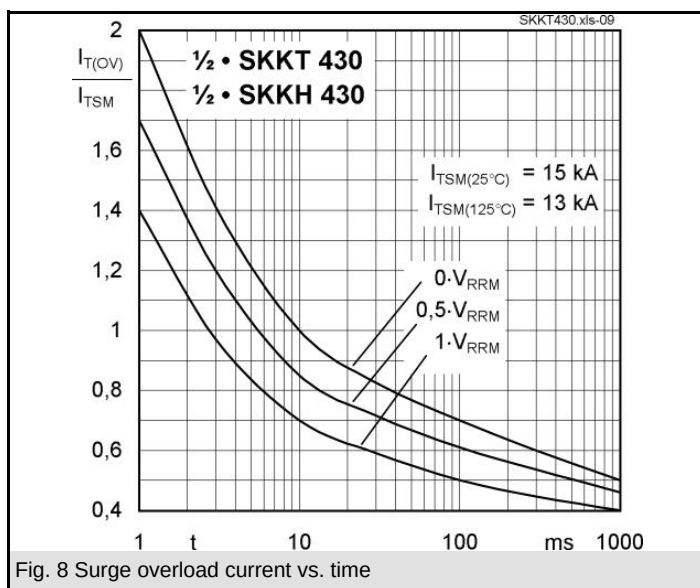
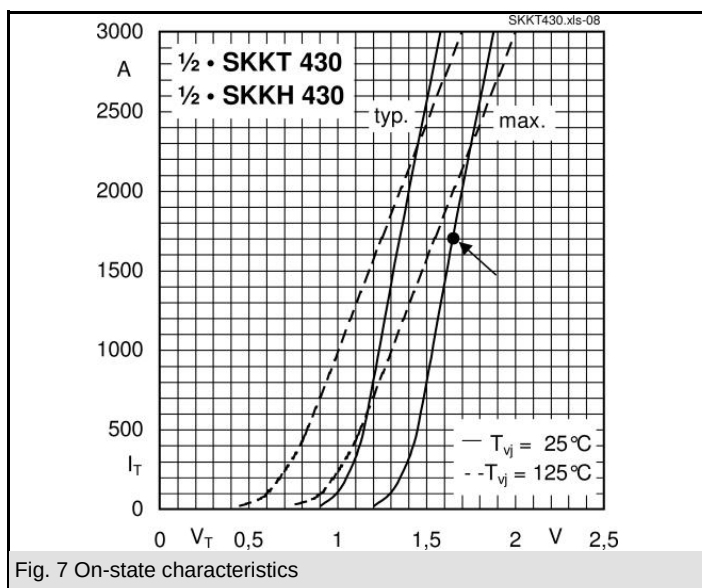
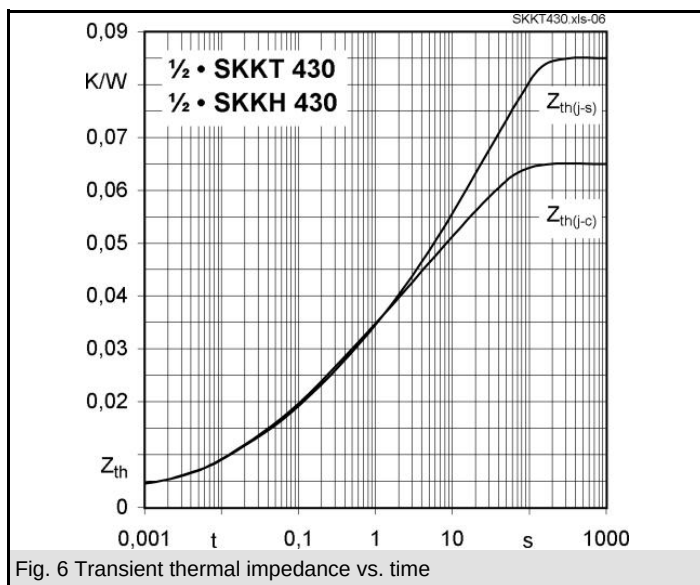


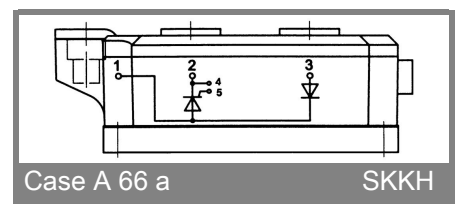
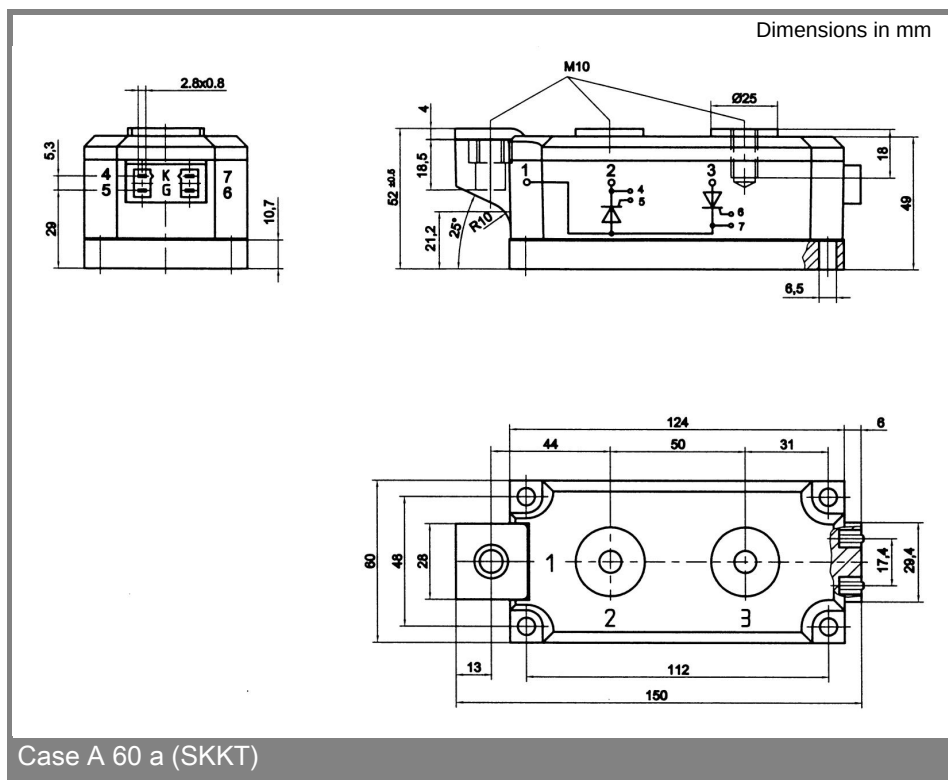
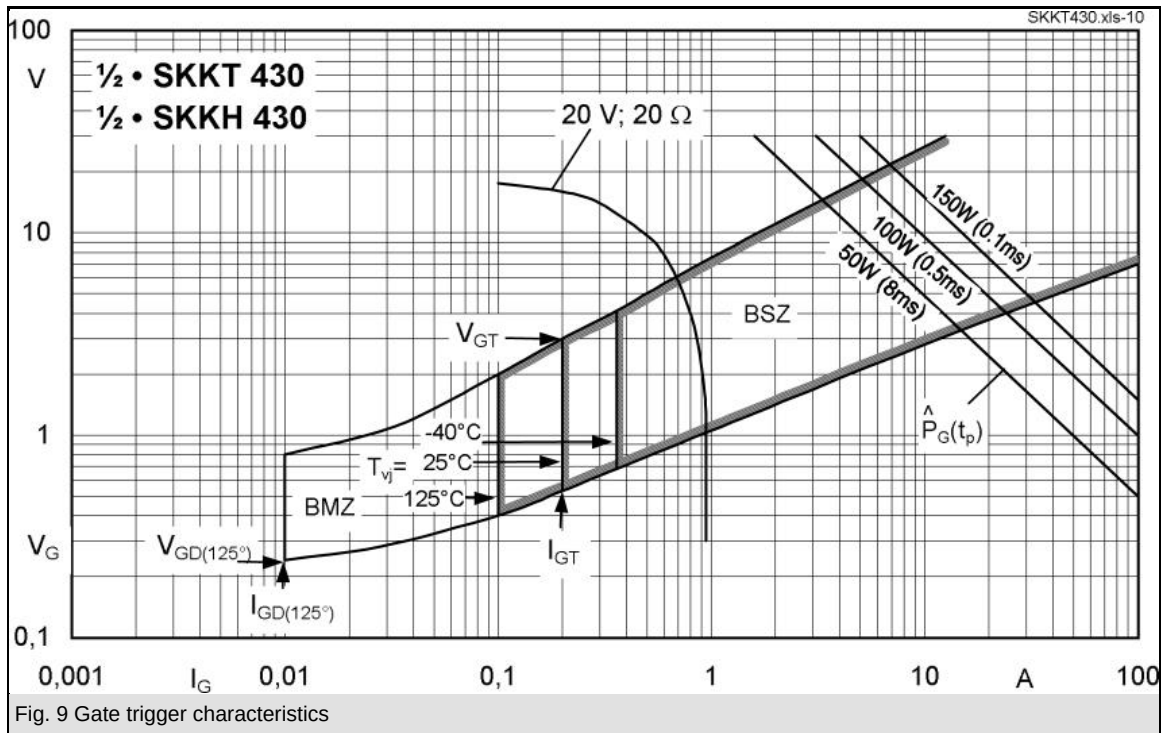
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