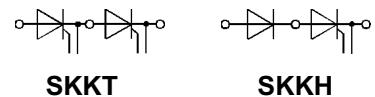


SKKT 430, SKKH 430

V_{RS} V	V_{RRM} V	$(dv/dt)_{cr}$ $V/\mu s$	I_{TRMS} (maximum values for continuous operation)	
			700 A	
			I_{TAV} (sin. 180; $T_{case} = 85^\circ C$) 440 A	
1700 2000 2200	1600 2000 2200	1000 1000 1000	SKKT 430/16 E SKKT 430/20 E H 4³⁾ SKKT 430/22 E H 4³⁾	SKKH 430/16 E SKKH 430/20 E H 4³⁾ SKKH 430/22 E H 4³⁾

SEMIPACK® 5
Thyristor ModulesSKKT 430
SKKH 430

Preliminary Data



Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability

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)

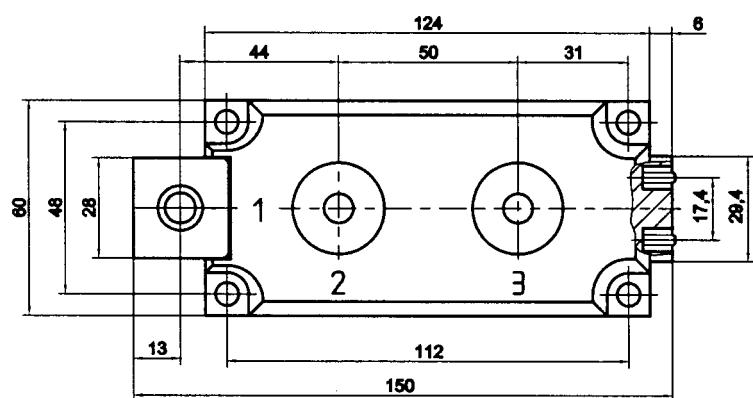
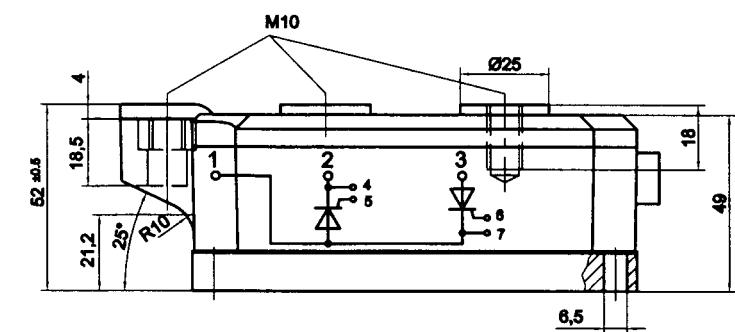
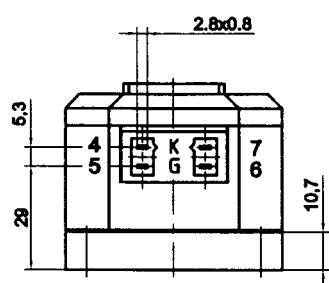
Symbol	Conditions	SKKT 430 SKKH 430	Units	
I_{TAV}	sin. 180; $T_{case} = 86^\circ C$	430	A	
I_{TSM}	$T_{vj} = 25^\circ C; 10\text{ ms}$ $T_{vj} = 125^\circ C; 10\text{ ms}$	15 000	A	
i^2t	$T_{vj} = 25^\circ C; 8,3 \dots 10\text{ ms}$ $T_{vj} = 125^\circ C; 8,3 \dots 10\text{ ms}$	13 000 1 125 000 845 000	A A^2s A^2s	
t_{gd}	$T_{vj} = 25^\circ C$ $I_G = 1\text{ A}$ $dI/dt = 1\text{ A}/\mu s$	1	μs	
t_{gr}	$V_D = 0,67 \cdot V_{DRM}$	2	μs	
$(di/dt)_{cr}$	$T_{vj} = 125^\circ C$ $T_{vj} = 125^\circ C$ I_H I_L	200 typ. 100 ... 200 150 / 500 0,3 / 2	$A/\mu s$ μs mA A	
V_T $V_{T(TO)}$ r_T $I_{DD}; I_{RD}$	$T_{vj} = 25^\circ C; I_T = 1700\text{ A}$ $T_{vj} = 125^\circ C$ $T_{vj} = 125^\circ C$ $T_{vj} = 125^\circ C; V_{RD} = V_{RRM}$ $V_{DD} = V_{DRM}$	1,65 0,95 0,35 100	V V $m\Omega$ mA	
V_{GT} I_{GT} V_{GD} I_{GD}	$T_{vj} = 25^\circ C; \text{d.c.}$ $T_{vj} = 25^\circ C; \text{d.c.}$ $T_{vj} = 130^\circ C; \text{d.c.}$ $T_{vj} = 130^\circ C; \text{d.c.}$	3 200 0,25 10	V mA V mA	
R_{thjc} R_{thch} T_{vj} T_{stg}	cont. sin. 180 rec. 120	per thyristor / per module per thyristor / per module per thyristor / per module per thyristor / per module	0,065 / 0,0325 0,068 / 0,034 0,073 / 0,0365 0,02 / 0,01 - 40 ... + 125 - 40 ... + 125	$^\circ C/W$ $^\circ C/W$ $^\circ C/W$ $^\circ C/W$ $^\circ C$ $^\circ C$
V_{isol} M_1 M_2 a w	a. c. 50 Hz; r.m.s.; 1 s/1 min to heatsink(M6) SI units US units	3600/3000 5 ± 15 % ¹⁾ 44 ± 15 % ¹⁾	V~ Nm lb.in.	
	to terminals(M10) SI units US units	12 ± 15 % ²⁾ 106 ± 15 % ²⁾	Nm lb.in.	
	approx.	5 · 9,81 1420	m/s^2 g	
Case	SKKT 430 SKKH 430	A 60 a A 66 a		

¹⁾ See the assembly instructions²⁾ The screws must be lubricated³⁾ $V_{isol} 1\text{ s/1 min} = 4800/4000\text{ V~}$

SKKT 430, SKKH 430

SKKT 430

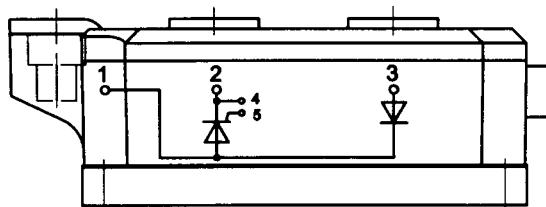
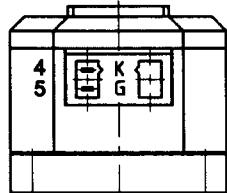
Case A 60 a
SEMIPACK® 5



Dimensions in mm

SKKH 430

Case A 66 a



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