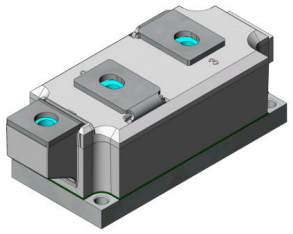
SKKT 570, SKKH 570



SEMIPACK ®5

Thyristor / Diode Modules

SKKT 570, SKKH 570

Target Data

Features

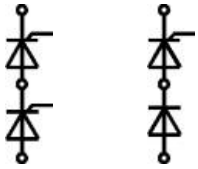
- Heat transfer through aluminium nitride ceramic insulated metal baseplate
- Hard soldered joints for high reliability
- UL recognition pending

Typical Applications

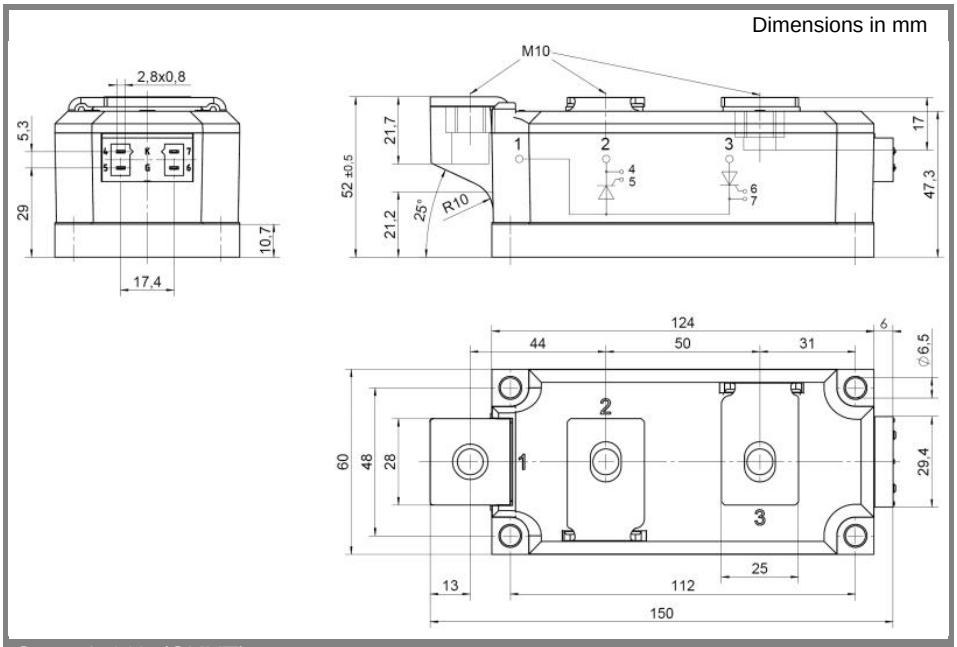
- AC motor softstarters
- Input converters for AC inverter drives
- DC motor control (e.g. for machine tools)
- Temperature control (e.g. for ovens, chemical, processes)
- Professionals light dimming (studios, theaters)

V_{RSM} V	V_{RRM}, V_{DRM} V	I_{TRMS} = 1000 A (maximum value for continuous operation) I_{TAV} = 570 A (sin. 180; T_c = 85 °C)	
1300	1200	SKKT 570/12 E	SKKH 570/12 E
1700	1600	SKKT 570/16 E	SKKH 570/16 E
1900	1800	SKKT 570/18 E	SKKH 570/18 E

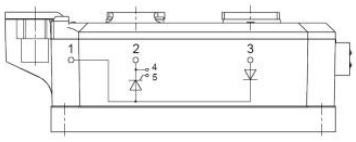
Symbol	Conditions	Values	Units
I_{TAV}	sin. 180; T_c = 85 (100) °C;	570 (435)	A
I_{TSM}	T_{vj} = 25 °C; 10 ms	19000	A
	T_{vj} = 135 °C; 10 ms	15500	A
i²t	T_{vj} = 25 °C; 8,3 .. 10 ms	1805000	A²s
	T_{vj} = 135 °C; 8,3 ... 10 ms	1201250	A²s
V_T	T_{vj} = 25 °C; I_T = 1700 A	max. 1,44	V
$V_{T(TO)}$	T_{vj} = 135 °C	max. 0,78	V
r_T	T_{vj} = 135 °C	max. 0,32	mΩ
I_{DD}; I_{RD}	T_{vj} = 135 °C; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}	max. 200	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} = 135 °C	max. 250	A/µs
$(dv/dt)_{cr}$	T_{vj} = 135 °C	max. 1000	V/µs
t_q	T_{vj} = 135 °C ,		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} = 135 °C; d.c.	max. 0,25	V
I_{GD}	T_{vj} = 135 °C; d.c.	max. 10	mA
$R_{th(j-c)}$	cont.; per thyristor / per module	0,069 / 0,034	K/W
$R_{th(j-c)}$	sin. 180°; per thyristor / per module	0,072 / 0,036	K/W
$R_{th(j-c)}$	rec. 120°; per thyristor / per module	0,077 / 0,038	K/W
$R_{th(c-s)}$	per thyristor / per module	0,02 / 0,01	K/W
T_{vj}		- 40 ... + 135	°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	12 ± 15% [2)]	Nm
a		5 * 9,81	m/s²
m	approx.	1400	g
Case	SKKT	A 60b	
	SKKH	A 66b	



SKKT SKKH



Case A 60b (SKKT)



Case A 66b (SKKH)

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