SKKT 72 H4, SKKH 72 H4



V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 125 A (maximum value for continuous operation)		
V	V	I _{TAV} = 70 A (sin. 180; T _c = 85 °C)		
2100	2000	SKKT 72/20E H4	SKKH 72/20E H4	
2300	2200	SKKT 72/22E H4	SKKH 72/22E H4	

SEMIPACK[®] 1

Thyristor / Diode Modules

SKKT 72 H4 SKKH 72 H4

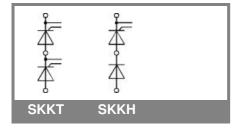
Features

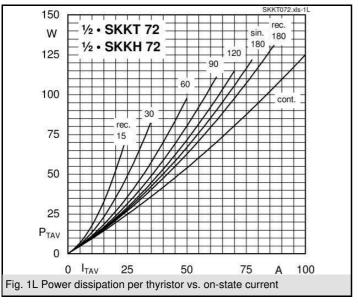
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63532

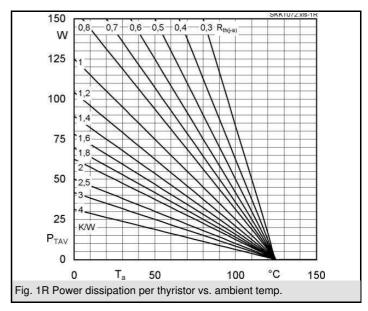
Typical Applications*

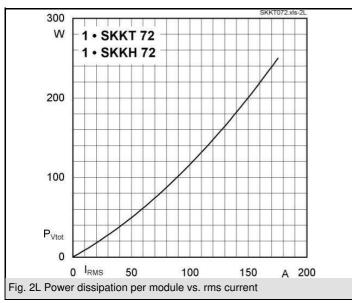
- DC motor control (e. g. for machine tools)
- AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

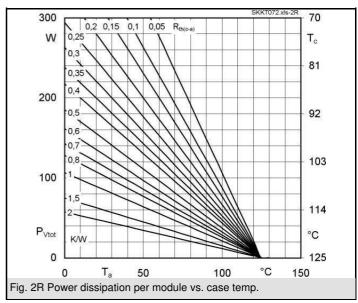
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	70 (50)	Α
I _D	P3/180; T _a = 45 °C; B2 / B6	62 / 75	Α
	P3/180F; T _a = 35 °C; B2 / B6	115 /145	Α
I _{RMS}	P3/180F; T _a = 35 °C; W1 / W3	155 / 3 * 115	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	1600	Α
	T _{vi} = 125 °C; 10 ms	1450	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	13000	A²s
	T _{vj} = 125 °C, 8,3 10 ms	10500	A²s
V_{T}	T _{vi} = 25 °C; I _T = 300 A	max. 1,9	V
$V_{T(TO)}$	T _{vi} = 125 °C	max. 0,9	V
r _T `	$T_{vj} = 125 ^{\circ}\text{C}$	max. 3,5	mΩ
I_{DD} ; I_{RD}	T_{vj} = 125 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 30	mA
t _{gd}	$T_{vj} = 25 ^{\circ}\text{C}; I_G = 1 \text{A}; di_G/dt = 1 \text{A/µs}$	1	μs
t _{gr}	$V_{D} = 0.67 * V_{DRM}$	1	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 150	A/µs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 1000	V/µs
t _q	T _{vi} = 125 °C ,	80	μs
I _H	$T_{vj} = 25 ^{\circ}\text{C}$; typ. / max.	150 / 250	mA
I_{L}	$T_{vj} = 25 ^{\circ}\text{C}; R_{G} = 33 \Omega; \text{typ. / max.}$	300 / 600	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
V_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 6	mA
R _{th(j-c)}	cont.; per thyristor / per module	0,35 / 0,18	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,37 / 0,19	K/W
R _{th(j-c)}	rec. 120; per thyristor / per module	0,39 / 0,2	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.	4800 / 4000	V~
M _s	to heatsink	5 ± 15 % ¹⁾	Nm
M_t	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKT	A 46	
	SKKH	A 47	
			•

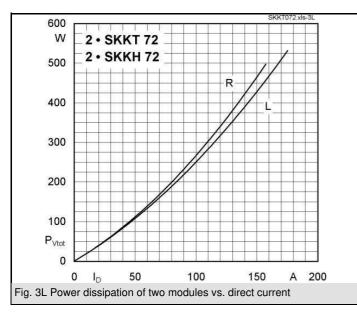


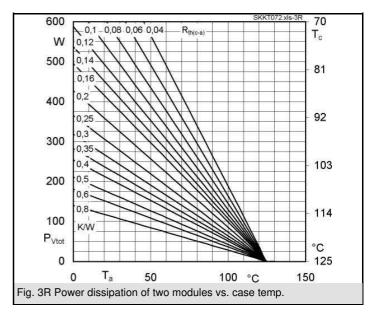




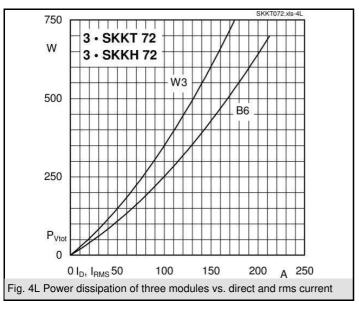


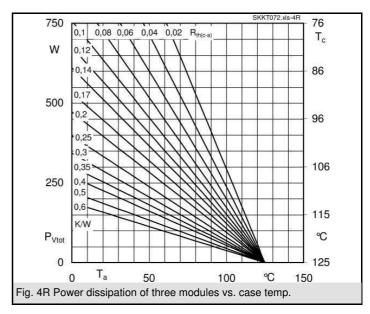


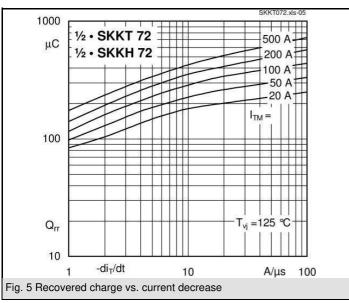


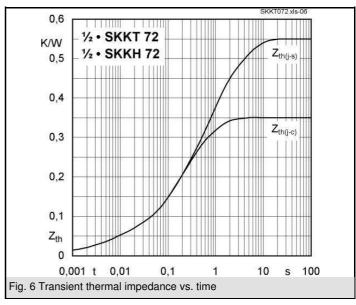


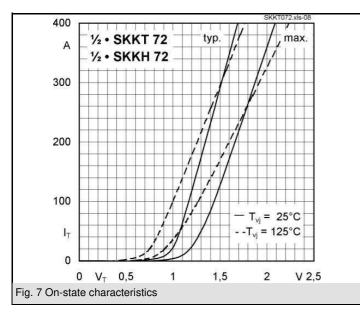
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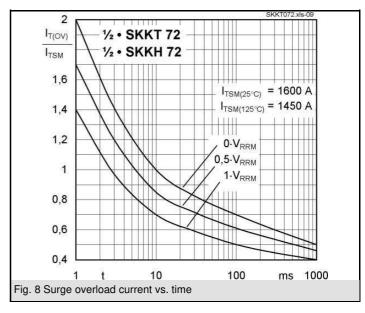


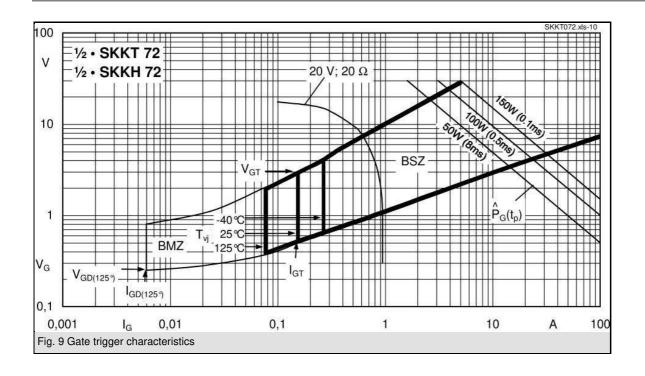


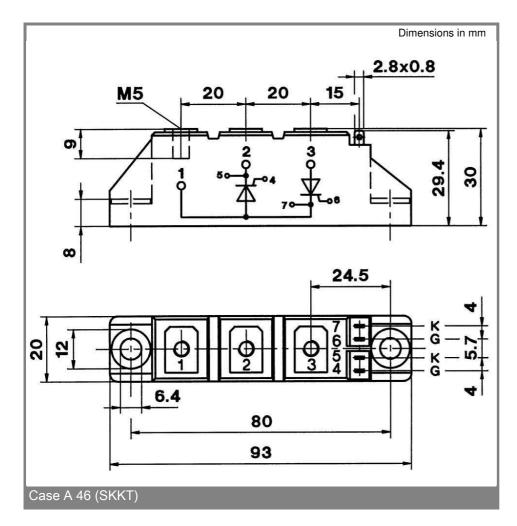


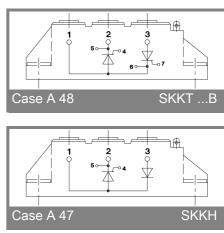












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.