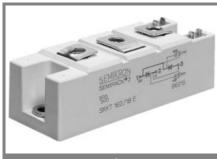
SKKT 172, SKKH 172



SEMIPACK[®] 2

Thyristor / Diode Modules

SKKH 172 SKKT 172

Features

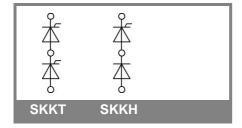
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

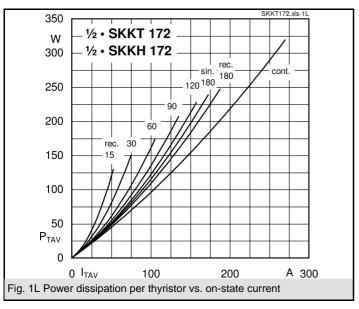
Typical Applications*

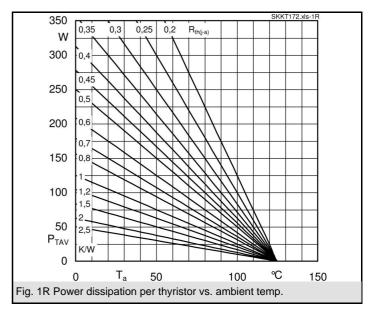
- DC motor control (e.g. for machine tools)
- · AC motor soft starters
- 1) Characteristic values
- 2) See the assembly instructions

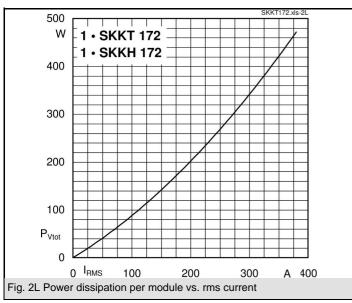
V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 275 A (maximum value for continuous operation)		
V	V	I _{TAV} = 172 A (sin.180; T _c = 86 °C)		
1500	1400	SKKT 172/14E		
1700	1600	SKKT 172/16E	SKKH 172/16E	
1900	1800	SKKT 172/18E		

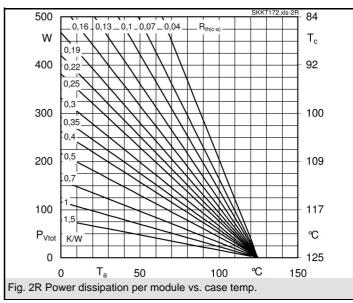
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C;	175 (124)	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	5400	Α
	T _{vi} = 125 °C; 10 ms	5000	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	145000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	125000	A²s
V_{T}	$T_{vj} = 25 ^{\circ}\text{C}; I_{T} = 500 \text{A}$	max. 1,41	V
$V_{T(TO)}$	$T_{vj} = 125 ^{\circ}C$	max. 0,83	V
r _T	$T_{vj}^{3} = 125 ^{\circ}\text{C}$	max. 1,3	mΩ
$V_{T(TO)(typ.)}^{1)}$	$T_{vj}^{3} = 125 ^{\circ}\text{C}$	0,8	V
r _{T(typ.)} 1)	T _{vj} = 125°C	1,2	$m\Omega$
$I_{DD}; I_{RD}$	T_{vj} = 125 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 40	mA
t_{gd}	$T_{vj} = 25 \text{ °C}; I_G = 1 \text{ A}; di_G/dt = 1 \text{ A/}\mu\text{s}$	1	μs
t _{gr}	$V_{D} = 0.67 * V_{DRM}$	2	μs
(di/dt) _{cr}	$T_{vj} = 125 ^{\circ}C$	max. 200	A/µs
(dv/dt) _{cr}	$T_{v_i} = 125 ^{\circ}\text{C}$	max. 1000	V/µs
t _q	$T_{v_i} = 125 ^{\circ}\text{C}$,	typ. 175	μs
I _H	T_{vj} = 25 °C; typ. / max.	150 / 400	mA
I_{L}	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	300 / 1000	mA
V _{GT}	T_{vj} = 25 °C; d.c.	min. 2	V
I_{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
V_{GD}	T_{vj}^{*} = 125 °C; d.c.	max. 0,25	V
I_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 10	mA
R _{th(j-c)}	cont.; per thyristor / per module	0,155 / 0,078	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,164 / 0,082	K/W
R _{th(j-c)}	rec. 120; per thyristor / per module	0,18 / 0,09	K/W
R _{th(c-s)}	per thyristor / per module	0,1 / 0,05	K/W
$T_{v_{j}}$		- 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 % ²⁾	Nm
M _t	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKT	A 21	
	SKKH	A 22	

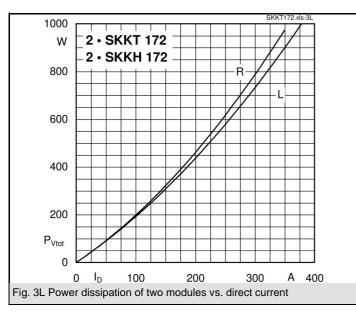


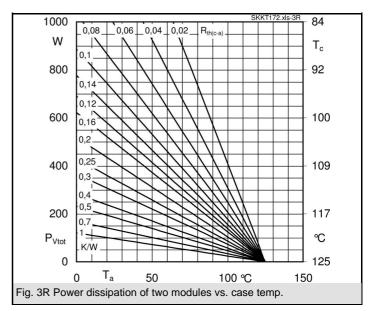




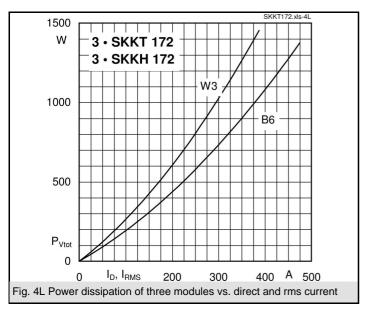


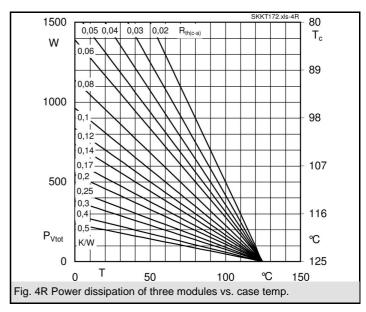


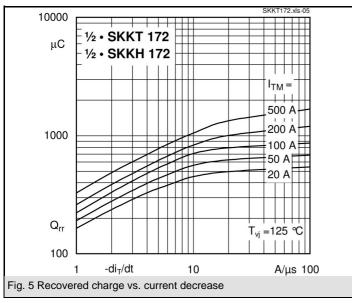


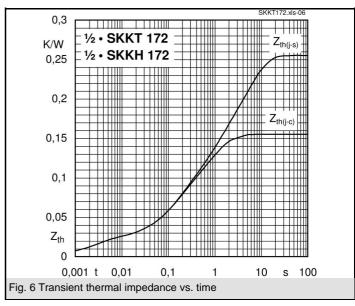


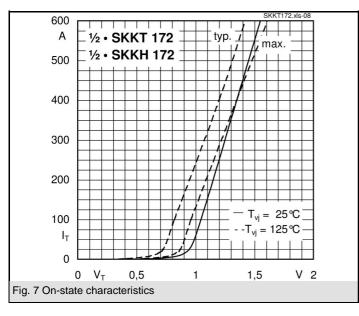
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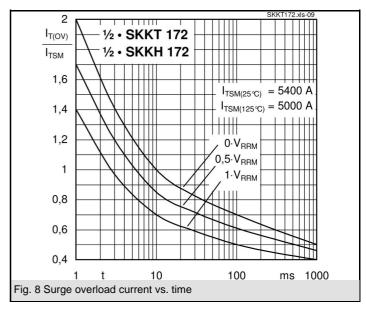


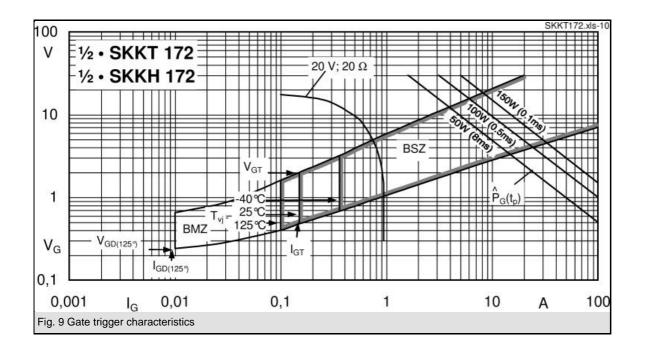


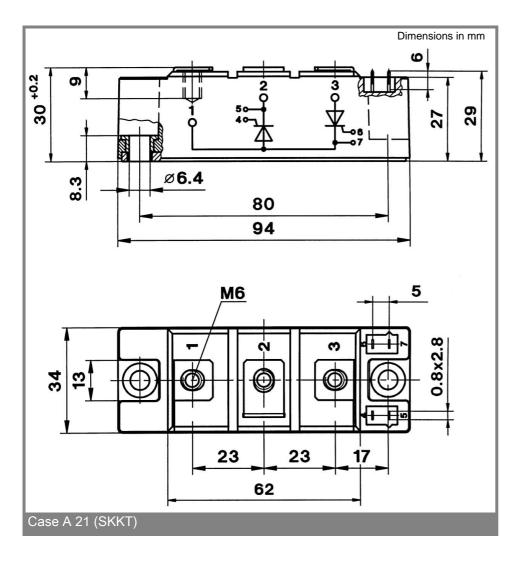


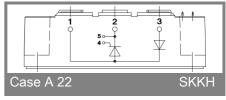












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

SKKT 172, SKKH 172

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.

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