SKKT 280, SKKH 280



SEMIPACK® 3 new

Thyristor / Diode Modules

SKKH 280 SKKT 280

Features

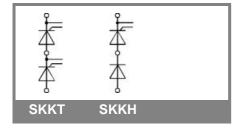
- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate
- UL recognized, file no. E 63 532

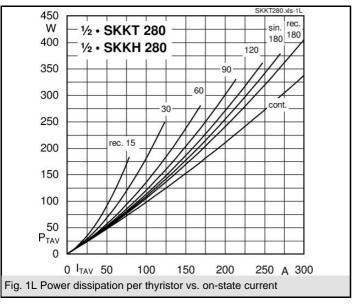
Typical Applications*

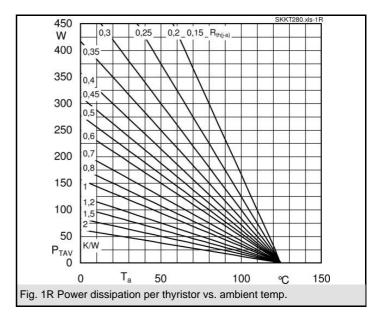
- DC motor control (e. g. for machine tools)
- AC motor starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instruction

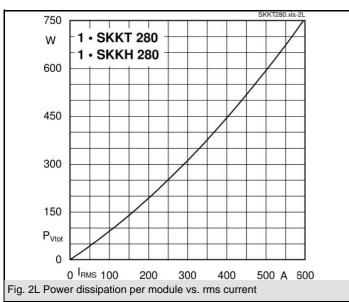
V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 440 A (maximum value for continuous operation)		
V	V	I _{TAV} = 280 A (sin. 180; T _c = 79 °C)		
2100	2000	SKKT 280/20E H4	SKKH 280/20E H4	
2300	2200	SKKT 280/22E H4	SKKH 280/22E H4	

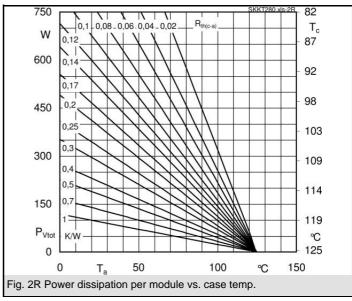
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 79 (85) °C;	280 (252)	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	8500	Α
	T _{vj} = 125 °C; 10 ms	7500	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	361000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	281000	A²s
V _T	T _{vi} = 25 °C; I _T = 750 A	max. 1,55	V
$V_{T(TO)}$	T _{vi} = 125 °C	max. 0,9	V
r _T	T _{vj} = 125 °C	max. 0,75	mΩ
I_{DD} ; I_{RD}	T_{vj} = 125 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 90	mA
t _{gd}	$T_{vj} = 25 ^{\circ}\text{C}; I_G = 1 \text{A}; di_G/dt = 1 \text{A/}\mu\text{s}$	1	μs
t _{gr}	V _D = 0,67 * V _{DRM}	2	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 250	A/µs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 1000	V/µs
t_q	$T_{vj} = 125 ^{\circ}\text{C}$	50 150	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}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 200	mA
V_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	T _{vj} = 125 °C; d.c.	max. 10	mA
$R_{th(j-c)}$	cont.; per thyristor / per module	0,11 / 0,055	K/W
$R_{th(j-c)}$	sin. 180; per thyristor / per module	0,116 / 0,058	K/W
$R_{th(j-c)}$	rec. 120; per thyristor / per module	0,13 / 0,065	K/W
$R_{th(c-s)}$	per thyristor / per module	0,04 / 0,02	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.	4800 / 4000	V~
M_s	to heatsink	9 ± 15 % ¹⁾	Nm
M_t	to terminal	9 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	600	g
Case	SKKT	A 73b	
	SKKH	A 76b	

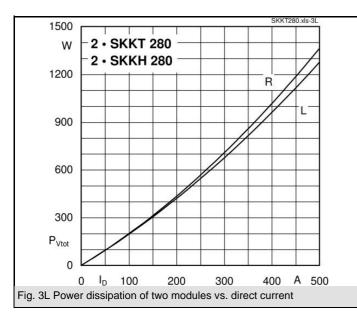


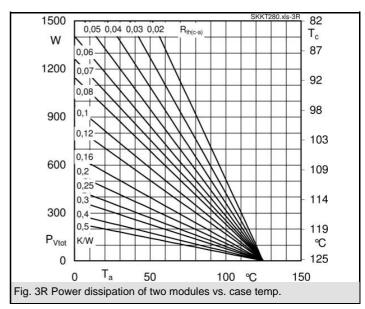




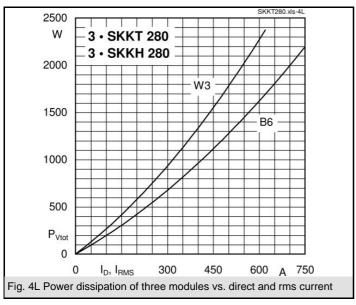


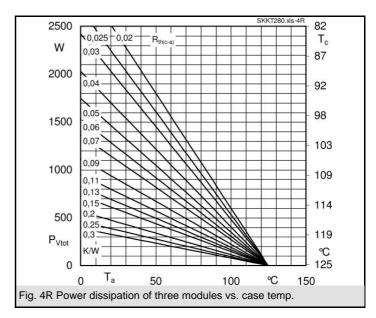


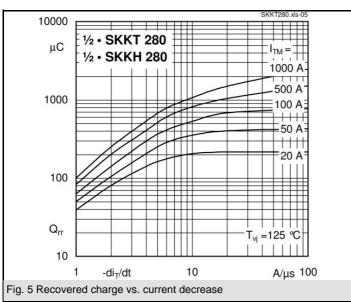


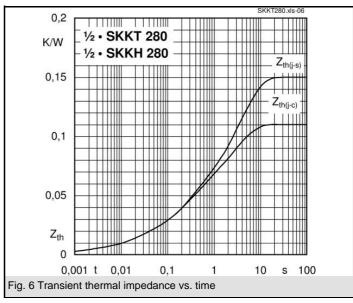


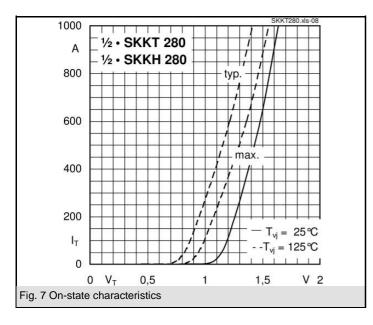
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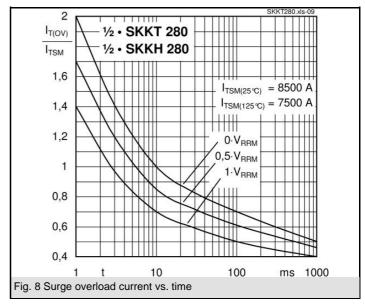


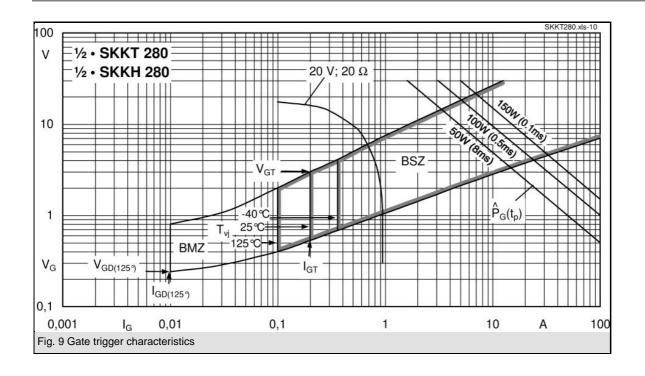


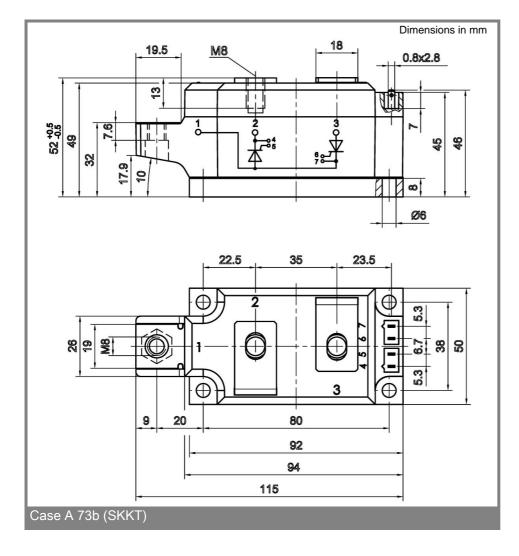


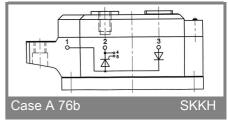












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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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 staff.

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