SKKT 132, SKKH 132



SEMIPACK[®] 2

Thyristor / Diode Modules

SKKT 132 SKKH 132

Features

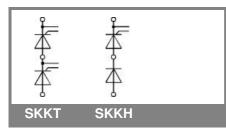
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63532

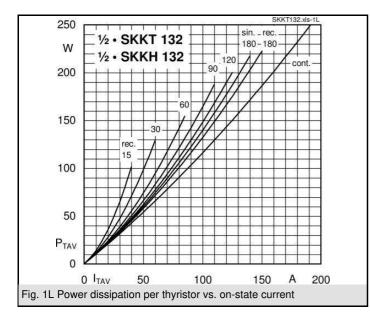
Typical Applications*

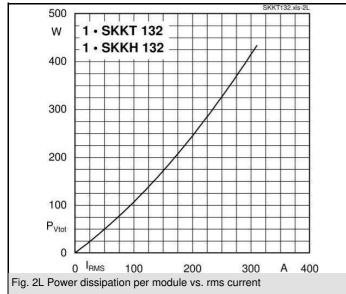
- DC motor control
 (e. g. for machine tools)
- Temperature control
 (e. g. for ovens, chemical
 processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

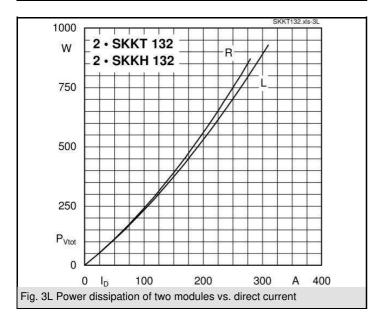
V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 220 A (maximum value for continuous operation)		
V	V	I _{TAV} = 130 A (sin. 180; T _c = 87 °C)		
900	800	SKKT 132/08E	SKKH 132/08E	
1300	1200	SKKT 132/12E	SKKH 132/12E	
1500	1400	SKKT 132/14E	SKKH 132/14E	
1700	1600	SKKT 132/16E	SKKH 132/16E	
1900	1800	SKKT 132/18E	SKKH 132/18E	

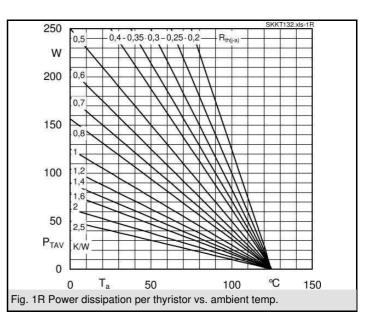
Symbol	Conditions	Values	Units
ITAV	sin. 180; T _c = 85 (100) °C;	137 (96)	А
I _D	P3/180; T _a = 45 °C; B2 / B6	77 / 100	А
	P3/180F; T _a = 35 °C; B2 / B6	170 /200	А
I _{RMS}	P3/180F; T _a = 35 °C; W1 / W3	240 / 3 * 163	А
I _{TSM}	T _{vi} = 25 °C; 10 ms	4700	Α
1 OW	T _{vi} = 125 °C; 10 ms	4000	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	110000	A²s
	T _{vi} = 125 °C; 8,3 10 ms	80000	A²s
V _T	T _{vi} = 25 °C; I _T = 500 A	max. 1,8	V
V _{T(TO)}	$T_{vi}^{j} = 125 \text{ °C}$	max. 1	V
r _T	$T_{vi} = 125 \text{ °C}$	max. 1,6	mΩ
I _{DD} ; I _{RD}	T_{vj}^{i} = 125 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 40	mA
t _{gd}	T _{vi} = 25 °C; I _G = 1 A; di _G /dt = 1 A/μs	1	μs
t _{gr}	$V_{\rm D} = 0,67 * V_{\rm DRM}$	2	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 200	A/µs
(dv/dt) _{cr}	$T_{vi}^{5} = 125 \text{ °C}$	max. 1000	V/µs
t _q	T _{vi} = 125 °C ,	50 150	μs
I _H	T _{vi} = 25 °C; typ. / max.	150 / 400	mA
IL	T _{vj} = 25 °C; R _G = 33 Ω; typ. / max.	300 / 1000	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 2	V
I _{GT}	$T_{vi}^{,j} = 25 \text{ °C}; \text{ d.c.}$	min. 150	mA
V _{GD}	T _{vi} = 125 °C; 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	0,18 / 0,09	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,19 / 0,095	K/W
R _{th(j-c)}	rec. 120; per thyristor / per module	0,21 / 0,105	K/W
R _{th(c-s)}	per thyristor / per module	0,1 / 0,05	K/W
T _{vi}		- 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 % ¹⁾	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	

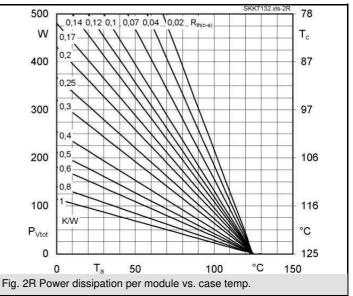


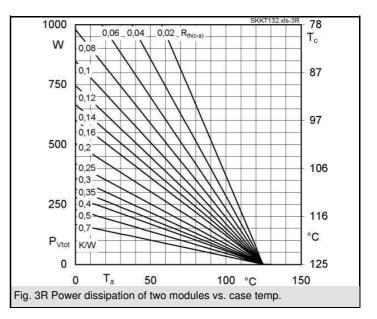




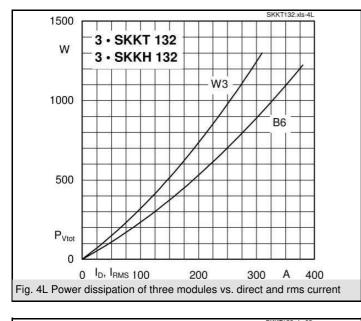


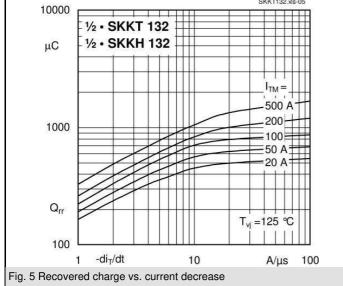


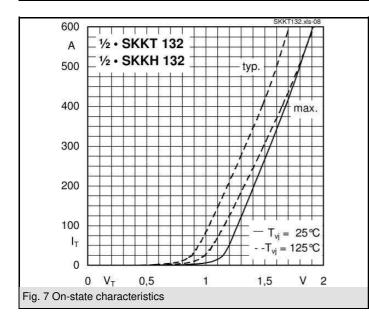


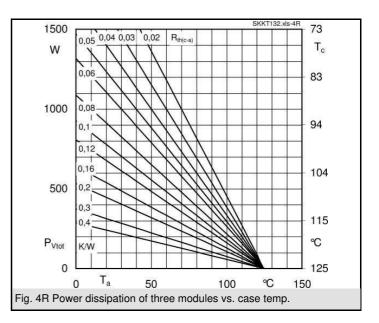


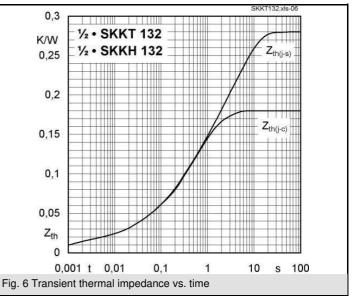
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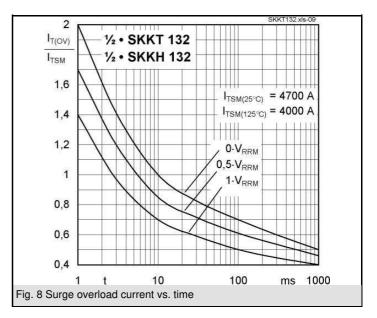


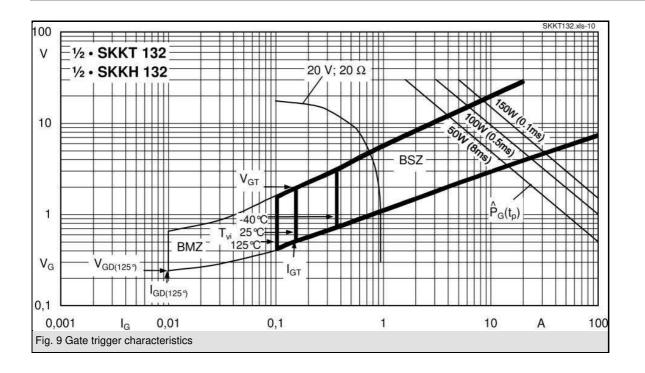


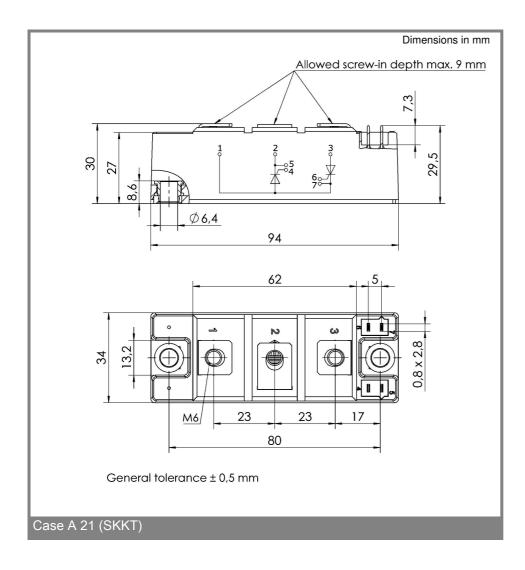


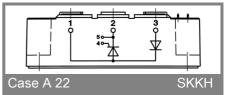












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This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

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