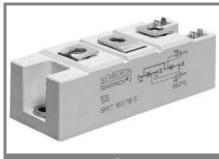
## **SKKT 132, SKKH 132**



# SEMIPACK<sup>®</sup> 2

### Thyristor / Diode Modules

SKKT 132 SKKH 132

#### **Features**

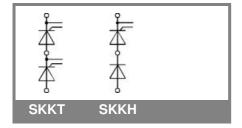
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63532

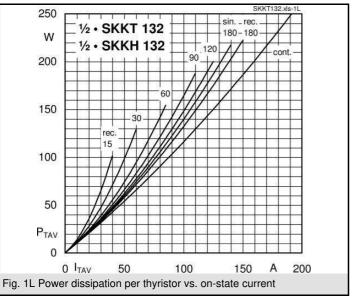
#### **Typical Applications\***

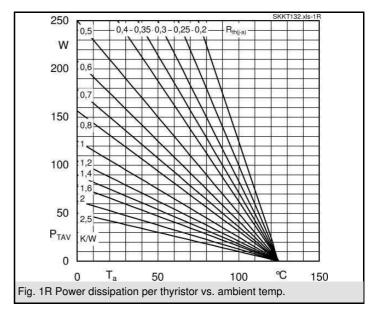
- DC motor control (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

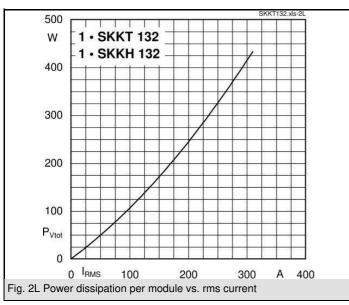
$V_{RSM}$	$V_{RRM}, V_{DRM}$	I <sub>TRMS</sub> = 220 A (maximum value for continuous operation)		
V	V	I <sub>TAV</sub> = 130 A (sin. 180; T <sub>c</sub> = 87 °C)		
900	800	SKKT 132/08E	SKKH 132/08E	
1300	1200	SKKT 132/12E	SKKH 132/12E	
1500	1400	SKKT 132/14E	SKKH 132/14E	
1700	1600	SKKT 132/16E	SKKH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

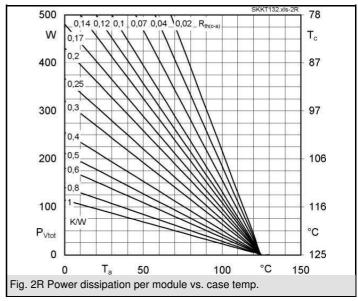
Symbol	Conditions	Values	Units
I <sub>TAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C;	137 (96 )	Α
I <sub>D</sub>	P3/180; T <sub>a</sub> = 45 °C; B2 / B6	77 / 100	Α
	$P3/180F; T_a = 35 °C; B2 / B6$	170 /200	Α
I <sub>RMS</sub>	P3/180F; T <sub>a</sub> = 35 °C; W1 / W3	240 / 3 * 163	Α
I <sub>TSM</sub>	$T_{v_i} = 25  ^{\circ}\text{C}; 10  \text{ms}$	4700	Α
	T <sub>vj</sub> = 125 °C; 10 ms	4000	Α
i²t	$T_{vj} = 25  ^{\circ}\text{C}; 8,3 \dots 10  \text{ms}$	110000	A²s
	$T_{vj}$ = 125 °C; 8,3 10 ms	80000	A²s
V <sub>T</sub>	$T_{v_i} = 25 \text{ °C}; I_T = 500 \text{ A}$	max. 1,8	V
$V_{T(TO)}$	T <sub>vj</sub> = 125 °C	max. 1	V
$r_T$	$T_{vj} = 125  ^{\circ}C$	max. 1,6	mΩ
I <sub>DD</sub> ; I <sub>RD</sub>	$T_{vj}$ = 125 °C; $V_{RD}$ = $V_{RRM}$ ; $V_{DD}$ = $V_{DRM}$	max. 40	mA
t <sub>gd</sub>	$T_{vj} = 25 ^{\circ}\text{C}; I_{G} = 1 \text{A}; di_{G}/dt = 1 \text{A/}\mu\text{s}$	1	μs
t <sub>gr</sub>	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
(di/dt) <sub>cr</sub>	T <sub>vi</sub> = 125 °C	max. 200	A/µs
(dv/dt) <sub>cr</sub>	T <sub>vi</sub> = 125 °C	max. 1000	V/µs
$t_q$	$T_{vj} = 125 ^{\circ}\text{C}$	50 150	μs
I <sub>H</sub>	$T_{vj} = 25 ^{\circ}\text{C}$ ; typ. / max.	150 / 400	mA
$I_{L}$	$T_{vj}$ = 25 °C; $R_G$ = 33 $\Omega$ ; typ. / max.	300 / 1000	mA
V <sub>GT</sub>	$T_{v_i}$ = 25 °C; d.c.	min. 2	V
I <sub>GT</sub>	$T_{vj} = 25  ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
$V_{GD}$	$T_{vj}^{*}$ = 125 °C; d.c.	max. 0,25	V
$I_{GD}$	$T_{vj}$ = 125 °C; d.c.	max. 10	mA
R <sub>th(j-c)</sub>	cont.; per thyristor / per module	0,18 / 0,09	K/W
R <sub>th(j-c)</sub>	sin. 180; per thyristor / per module	0,19 / 0,095	K/W
R <sub>th(j-c)</sub>	rec. 120; per thyristor / per module	0,21 / 0,105	K/W
R <sub>th(c-s)</sub>	per thyristor / per module	0,1 / 0,05	K/W
$T_{vj}$		- 40 + 125	°C
T <sub>stg</sub>		- 40 + 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M <sub>s</sub>	to heatsink	5 ± 15 % <sup>1)</sup>	Nm
M <sub>t</sub>	to terminal	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKT	A 21	
	SKKH	A 22	

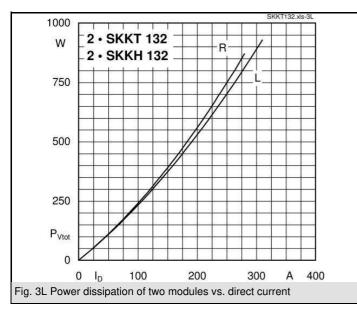


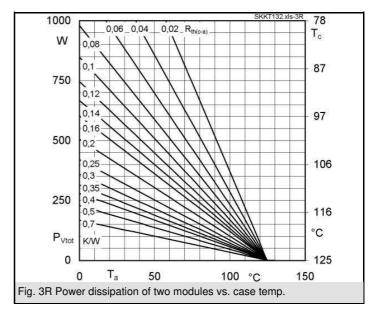




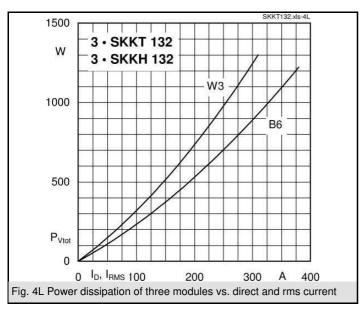


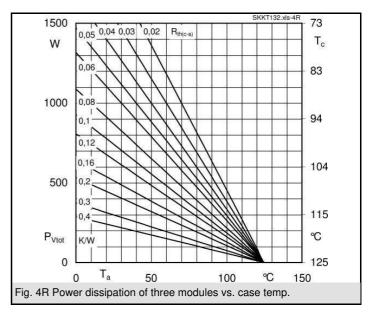


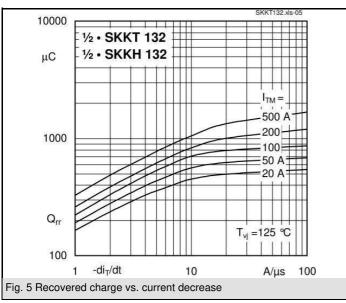


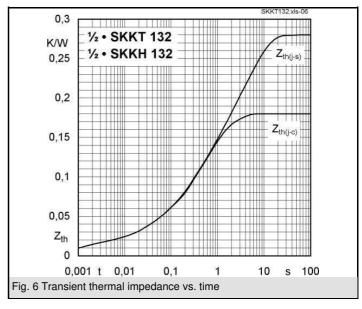


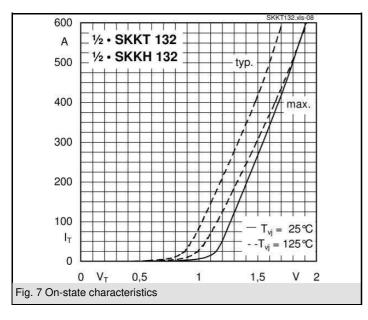
### **SKKT 132, SKKH 132**

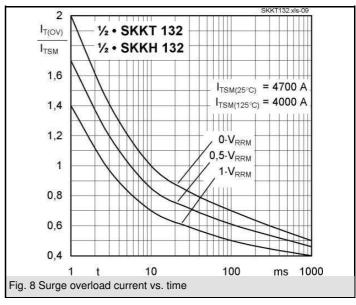


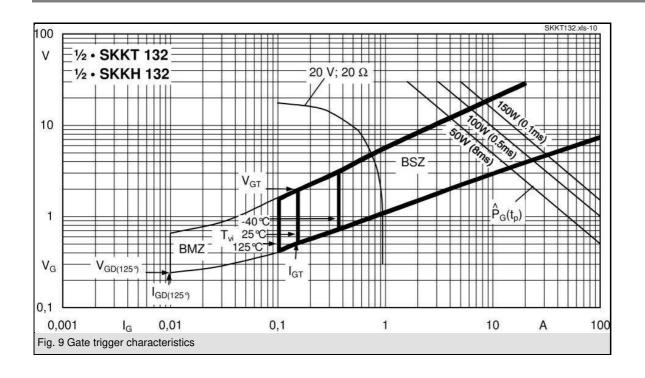


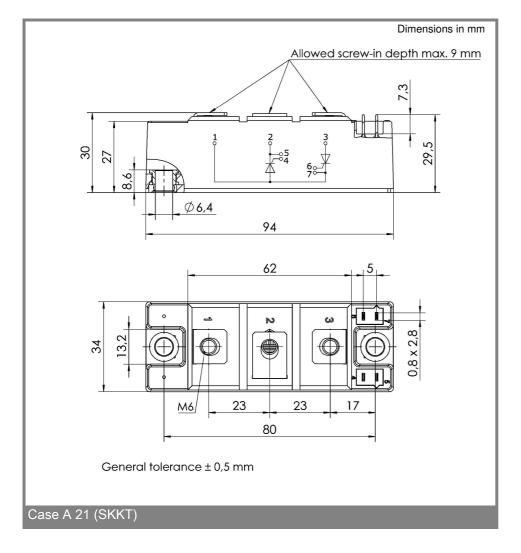


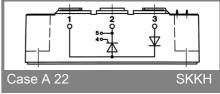












### SKKT 132, SKKH 132

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

#### \*IMPORTANT INFORMATION AND WARNINGS

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