SKKT 106, SKKT 106B, SKKH 106



SEMIPACK[®] 1

Thyristor / Diode Modules

| SKKT | 106 |
|-------------|------|
| SKKT | 106B |
| SKKH | 106 |

Features

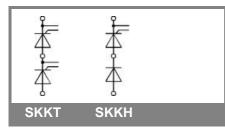
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

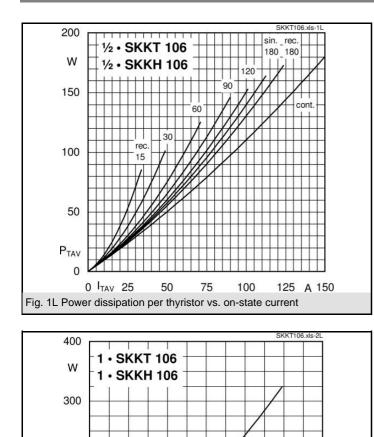
Typical Applications*

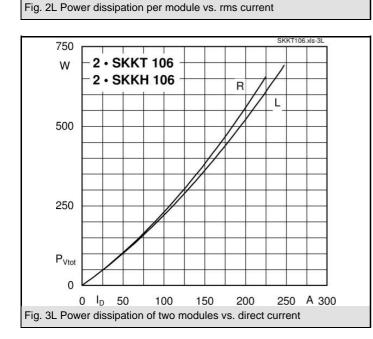
- DC motor control
 (e. g. for machine tools)
- AC motor soft starters
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instructions

| V _{RSM} | V _{RRM} , V _{DRM} | I _{TRMS} = 180 A (maximum value for continuous operation) | | |
|------------------|-------------------------------------|--|--------------|--------------|
| V | V | I _{TAV} = 106 A (sin. 180; T _c = 85 °C) | | |
| 900 | 800 | SKKT 106/08E | SKKT 106B08E | SKKH 106/08E |
| 1300 | 1200 | SKKT 106/12E | SKKT 106B12E | SKKH 106/12E |
| 1500 | 1400 | SKKT 106/14E | SKKT 106B14E | SKKH 106/14E |
| 1700 | 1600 | SKKT 106/16E | SKKT 106B16E | SKKH 106/16E |
| 1900 | 1800 | SKKT 106/18E | SKKT 106B18E | SKKH 106/18E |

| Symbol | Conditions | Values | Units |
|-----------------------------------|---|------------------------|-------|
| I _{TAV} | sin. 180; T _c = 85 (100) °C; | 106 (78) | А |
| I _D | P3/180F; T _a = 35 °C; B2 / B6 | 145 / 180 | А |
| | P16/200F; T _a = 35 °C; B2 / B6 | 190 /260 | А |
| I _{RMS} | P3/180F; T _a = 35 °C; W1 / W3 | 200 / 3 * 140 | А |
| I _{TSM} | T _{vi} = 25 °C; 10 ms | 2250 | А |
| | T _{vi} = 130 °C; 10 ms | 1900 | А |
| i²t | T _{vi} = 25 °C; 8,3 10 ms | 25000 | A²s |
| | T _{vj} = 130 °C; 8,3 10 ms | 18000 | A²s |
| V _T | T _{vi} = 25 °C; I _T = 300 A | max. 1,65 | V |
| V _{T(TO)} | T _{vi} = 130 °C | max. 0,9 | V |
| r _T | T _{vi} = 130 °C | max. 2 | mΩ |
| I _{DD} ; I _{RD} | $T_{vj} = 130 \text{ °C}; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$ | max. 20 | 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} = 130 °C | max. 150 | A/µs |
| (dv/dt) _{cr} | T _{vi} = 130 °C | max. 1000 | V/µs |
| t _q | $T_{vi}^{,j} = 130 \ ^{\circ}C$, | 100 | μs |
| I _H | $T_{vi}^{3} = 25 \text{ °C}; \text{ typ. / max.}$ | 150 / 250 | mA |
| I _L | T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max. | 300 / 600 | mA |
| V _{GT} | T _{vi} = 25 °C; d.c. | min. 3 | V |
| I _{GT} | $T_{vi}^{,j} = 25 \text{ °C}; \text{ d.c.}$ | min. 150 | mA |
| V _{GD} | T _{vi} = 130 °C; d.c. | max. 0,25 | V |
| I _{GD} | T _{vi} = 130 °C; d.c. | max. 6 | mA |
| R _{th(j-c)} | cont.; per thyristor / per module | 0,28 / 0,14 | K/W |
| R _{th(j-c)} | sin. 180; per thyristor / per module | 0,3 / 0,15 | K/W |
| R _{th(j-c)} | rec. 120; per thyristor / per module | 0,32 / 0,16 | K/W |
| R _{th(c-s)} | per thyristor / per module | 0,2 / 0,1 | K/W |
| T _{vi} `´ | | - 40 + 130 | °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 |
| Mt | to terminal | 3 ± 15 % | Nm |
| a | | 5 * 9,81 | m/s² |
| m | approx. | 95 | g |
| Case | SKKT | A 46 | |
| | SKKTB | A 48 | |
| | SKKH | A 47 | |





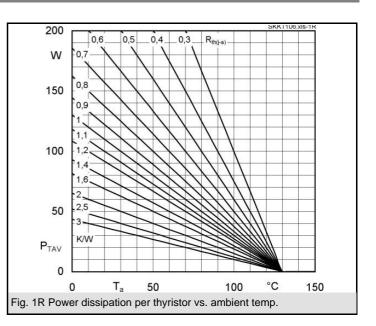


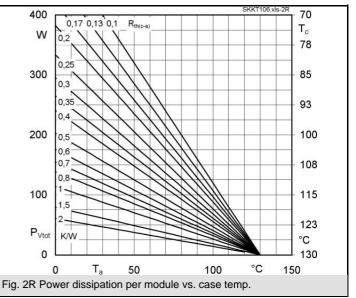
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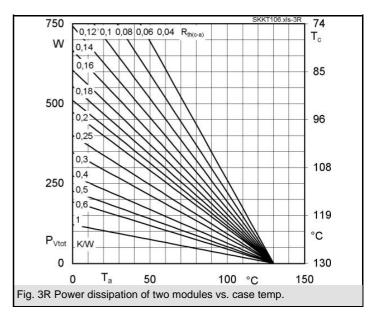
150

200

250 A 300







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200

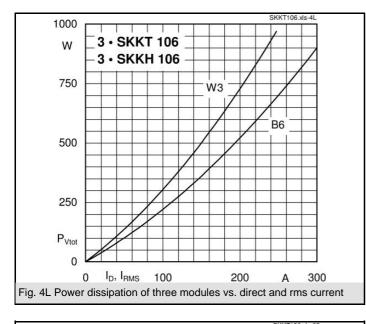
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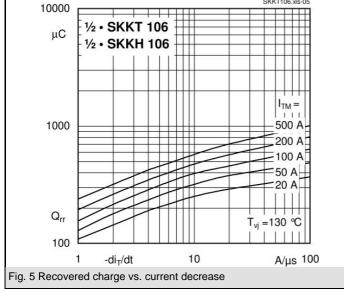
 $\mathsf{P}_{\mathsf{Vtot}}$

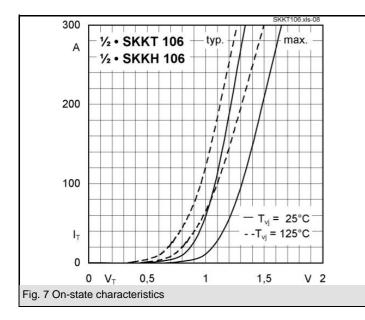
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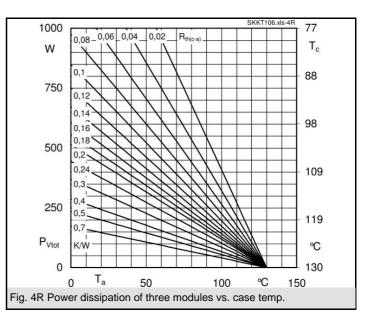
0 I_{RMS} 50

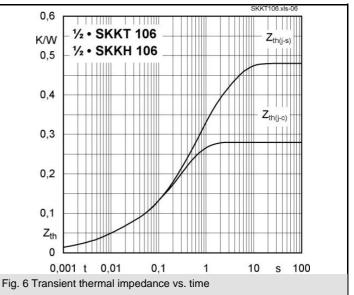
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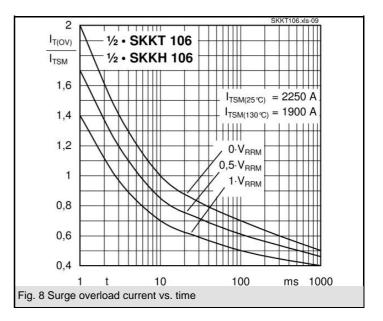




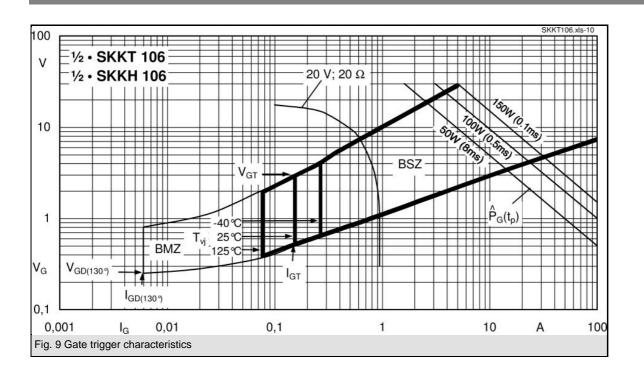


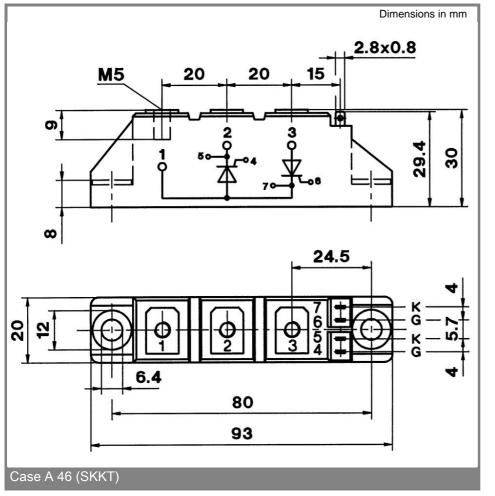


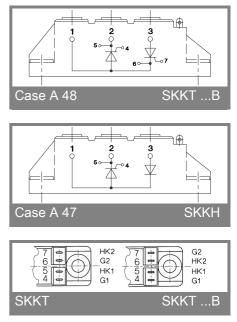




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