

SKKE 1200



Rectifier Diode Modules

SKKE 1200

Target Data

Features

- Precisious metal pressure contacts for high reliability

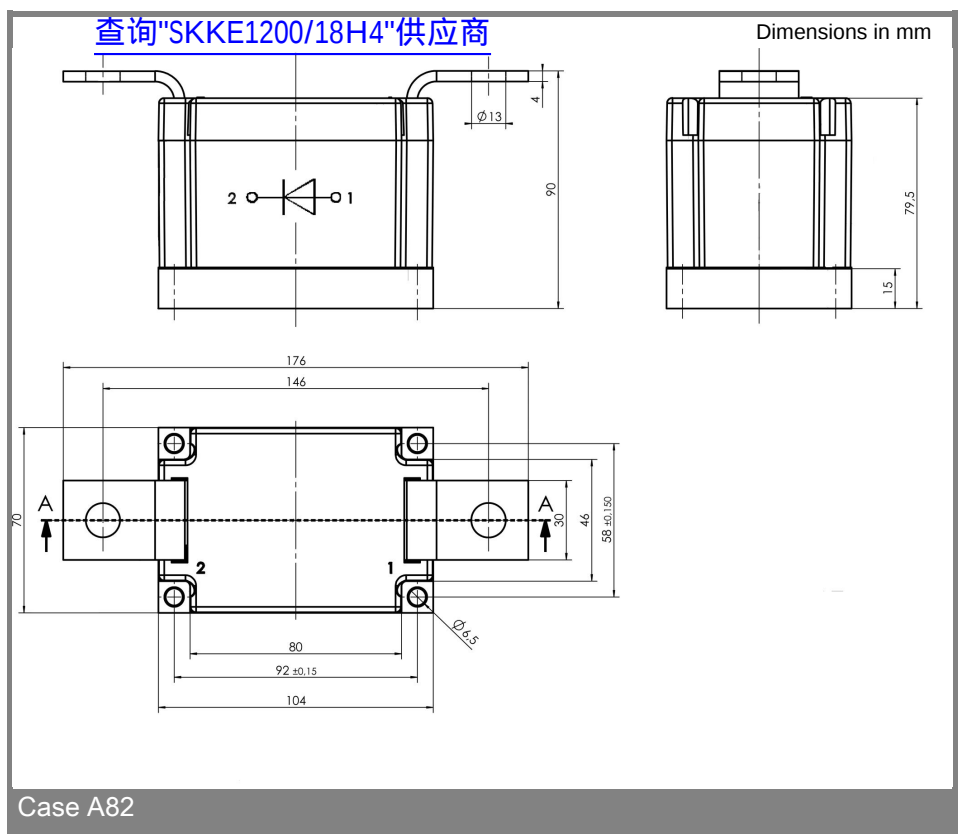
Typical Applications

- Rectifiers

| $V_{RSM}$<br>V | $V_{RRM}$<br>V | $I_{FRMS} = 2000\text{ A}$ (maximum value for continuous operation)<br>$I_{FAV} = 1180\text{ A}$ (sin. 180; $T_c = 100\text{ °C}$ ) |  |  |
|----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 1900           | 1800           | SKKE 1200/18 H4                                                                                                                     |  |  |
| 2300           | 2200           | SKKE 1200/22 H4                                                                                                                     |  |  |

| Symbol        | Conditions                                      | Values                       | Units            |
|---------------|-------------------------------------------------|------------------------------|------------------|
| $I_{FAV}$     | sin. 180; $T_c = 100\text{ °C}$                 | 1180                         | A                |
| $I_{FSM}$     | $T_{vj} = 25\text{ °C}$ ; 10 ms                 | 45000                        | A                |
|               | $T_{vj} = 160\text{ °C}$ ; 10 ms                | 40000                        | A                |
| $i^2t$        | $T_{vj} = 25\text{ °C}$ ; 8,3 ... 10 ms         | 10125000                     | A <sup>2</sup> s |
|               | $T_{vj} = 160\text{ °C}$ ; 8,3 ... 10 ms        | 8000000                      | A <sup>2</sup> s |
| $V_F$         | $T_{vj} = 25\text{ °C}$ ; $I_F = 3000\text{ A}$ | max. 1,4                     | V                |
| $V_{(TO)}$    | $T_{vj} = 160\text{ °C}$                        | max. 0,75                    | V                |
| $r_T$         | $T_{vj} = 160\text{ °C}$                        | max. 0,17                    | mΩ               |
| $I_{RD}$      | $T_{vj} = 160\text{ °C}$ ; $V_{RD} = V_{RRM}$   | max. 60                      | mA               |
| $R_{th(j-c)}$ | cont.                                           | 0,0395                       | K/W              |
|               | sin. 180                                        | 0,041                        | K/W              |
| $R_{th(c-s)}$ |                                                 | 0,01                         | K/W              |
| $T_{vj}$      |                                                 | - 40 ... + 160 <sup>1)</sup> | °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                                     | 6 ± 15%                      | Nm               |
| $M_t$         | to terminals                                    | 18 ± 15 %                    | Nm               |
| a             |                                                 | 5 * 9,81                     | m/s <sup>2</sup> |
| m             | approx.                                         | 2150                         | g                |
| Case          |                                                 | A82                          |                  |





This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.