SKD 145



SKD 145 Target Data

Features

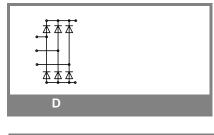
- Compact design
- SKiiP technology: thermal pressure contact, no base plate and no hard mould
- Two screws mounting
- Heat transfer and isolation through direct copper board (low R th)
- Low resistance in steady-state and high reliability
- · High surge currents
- Up to 1800 V
- UL recognized, file no. E 63 532

Typical Applications*

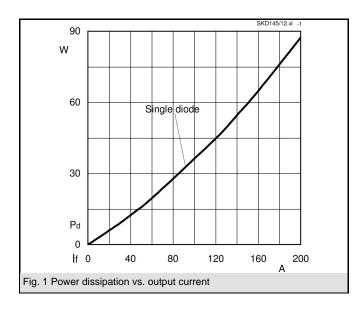
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

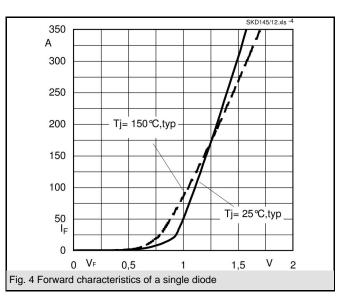
| V _{RSM} V | V _{RRM} , V _{DRM} V | $I_D = 140 \text{ A} \text{ (full conduction)}$ (T _s = 85 °C) |
|-----------------------|--|---|
| 1200 | 1200 | SKD 145/12 |
| 1600 | 1600 | SKD 145/16 |
| 1800 | 1800 | SKD 145/18 |

| Symbol | Conditions | Values | Units |
|---------------------|--|-------------------|------------|
| I _D | T _s = 85 °C | 140 | А |
| I _{FSM} | T _{vi} = 25 °C; 10 ms | 1800 | А |
| - | T _{vi} = 125 °C; 10 ms | 1700 | А |
| i²t | T _{vi} = 25 °C; 8,3 10 ms | 16200 | A²s |
| | T _{vj} = 125 °C; 8,3 10 ms | 14450 | A²s |
| V _F | T _{vi} = 125 °C; I _F = 150 A | max. 1,3 | V |
| V _(TO) | T _{vi} = 125 °C | max. 0,8 | V |
| r _T | T _{vi} = 125 °C | max. 4 | mΩ |
| I _{RD} | $T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$ | | mA |
| | | | mA |
| R _{thjh} | per diode | 0,8 | K/W K/W |
| T _{solder} | Terminals, max 10s | 260 - 40 + 150 | °C O° |
| T _{vj} | | | |
| 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; SI units | 2,5 | Nm |
| Mt | | | Nm |
| m | | 75 | g |
| Case | | G 57 | |

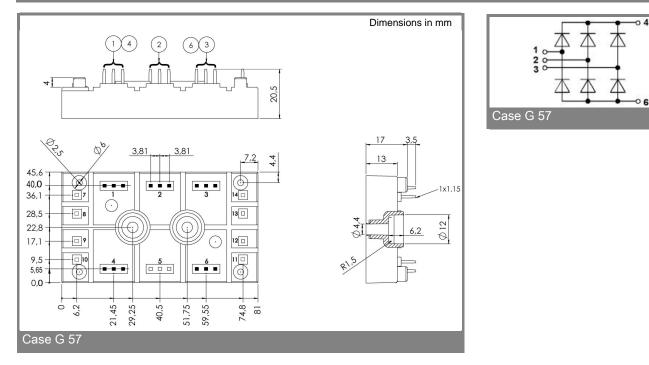


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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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