

SEMiX® 13s

Bridge Rectifier Module (uncontrolled)

SEMiX 341D

Target Data

Features

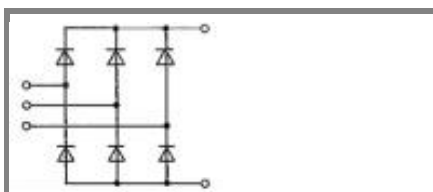
- terminal height of 17mm
- chip solder on direct copper bonded Al₂O₃ ceramic
- heat transfer through Al₂O₃ ceramic isolated baseplate

Typical Applications

- Input Bridge Rectifier for
- AC/DC motor control
- power supply

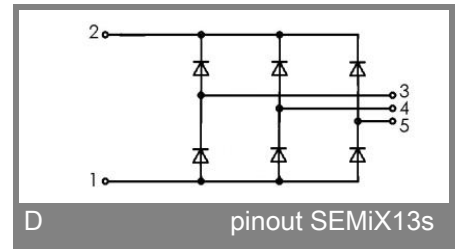
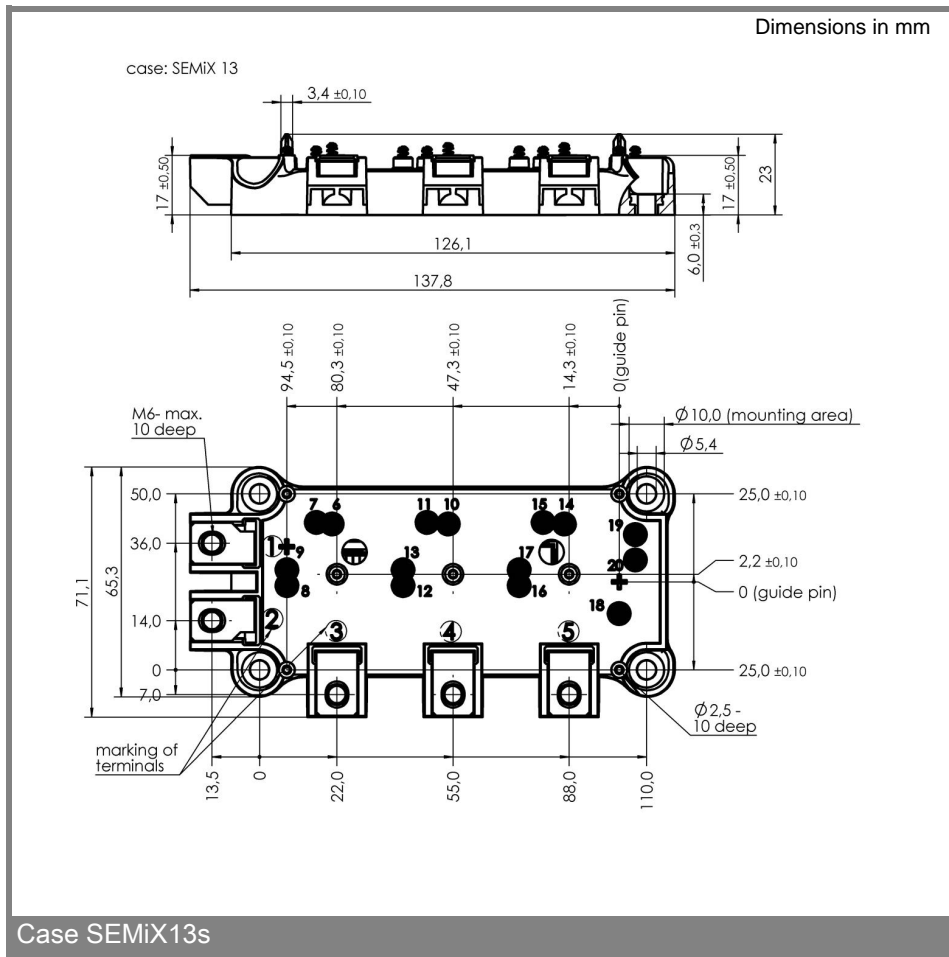
| | | |
|----------------|-------------------------|---|
| V_{RSM} V | V_{RRM}, V_{DRM} V | $I_D = 340$ A (full conduction) ($T_c = 85$ °C) |
| 1700 | 1600 | SEMiX 341D16s |

| Symbol | Conditions | Values | Units |
|---------------|---|----------------|------------------|
| I_D | $T_c = 85$ °C | 340 | A |
| | $T_c = 100$ °C | 290 | |
| I_{FSM} | $T_{vj} = 25$ °C; 10 ms | 2500 | A |
| | $T_{vj} = 130$ °C; 10 ms | 2000 | A |
| i^2t | $T_{vj} = 25$ °C; 8,3 ... 10 ms | 31200 | A ² s |
| | $T_{vj} = 130$ °C; 8,3 ... 10 ms | 20000 | A ² s |
| V_F | $T_{vj} = 25$ °C; $I_F = 400$ A | max. 1,75 | V |
| $V_{(TO)}$ | $T_{vj} = 130$ °C | max. 0,9 | V |
| r_T | $T_{vj} = 130$ °C | max. 2,7 | mΩ |
| I_{RD} | $T_{vj} = 130$ °C; $V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$ | max. 4,5 | mA |
| $R_{th(j-c)}$ | per diode | 0,22 | K/W K/W |
| | per module | 0,04 | K/W |
| T_{vj} | | - 40 ... + 130 | °C |
| T_{stg} | | - 40 ... + 125 | °C |
| V_{isol} | a. c. 50 Hz; r.m.s.; 1 s / 1 min. | 4800 (4000) | V |
| M_s | (min./max.) | 3/5 | Nm |
| M_t | (min./max.) | 2,5/5 | Nm |
| a | | 5 * 9,81 | m/s ² |
| m | | 300 | g |
| Case | SEMiX 13s | | |



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SEMiX 341D ...



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