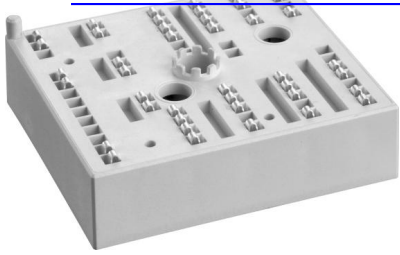


SKiiP 24NAB126V1

查询"SKIIIP24NAB126V1"供应商



MiniSKiiP[®] 2

3-phase bridge rectifier +
brake chopper + 3-phase
bridge inverter
SKiiP 24NAB126V1

Features

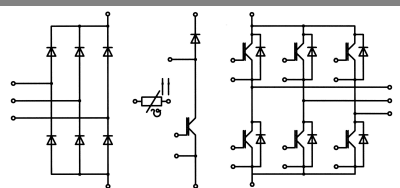
- Fast Trench IGBTs
- Robust and soft freewheeling diodes in CAL technology
- Highly reliable spring contacts for electrical connections
- UL recognised file no. E63532

Typical Applications

- Inverter up to 19 kVA
- Typical motor power 11 kW

Remarks

- V_{CEsat} , V_F = chip level value

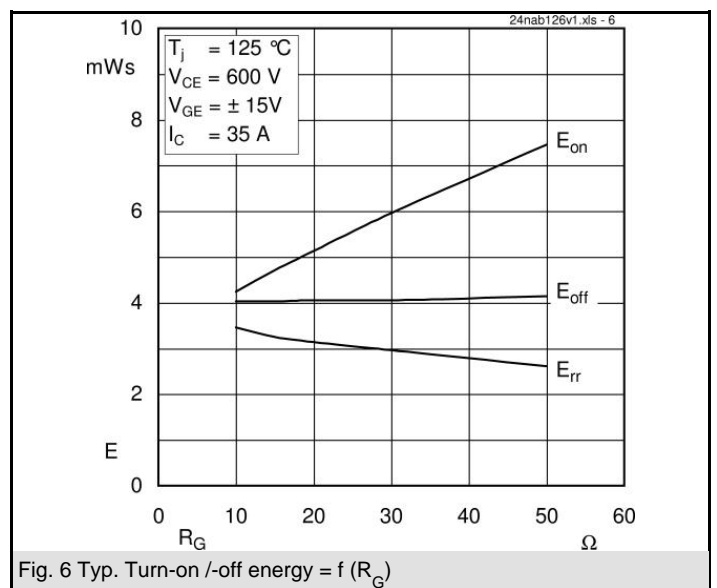
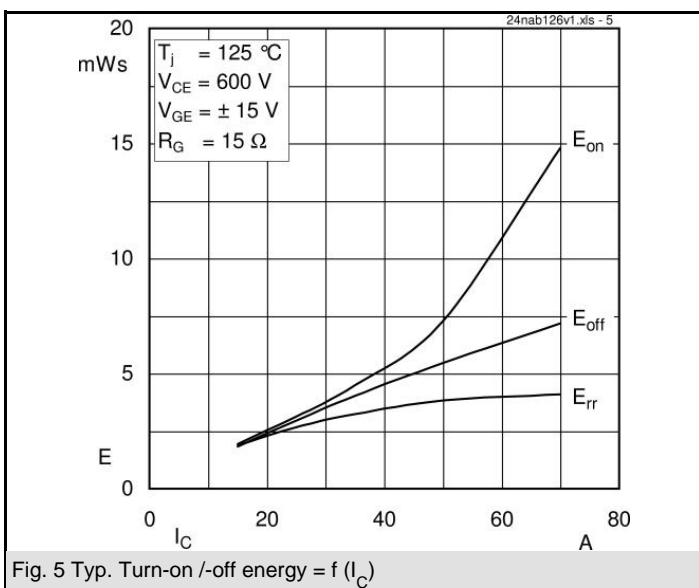
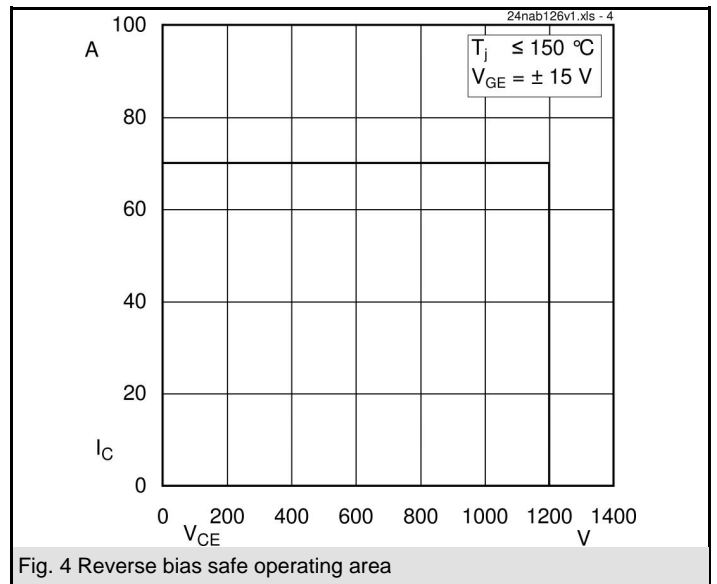
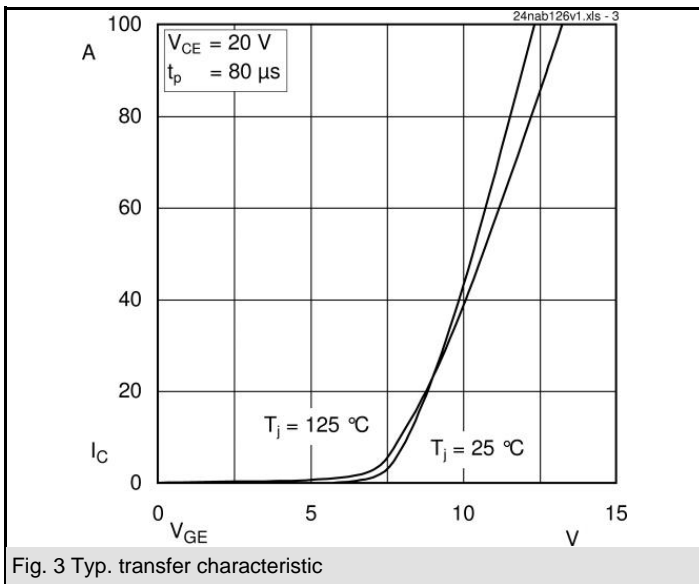
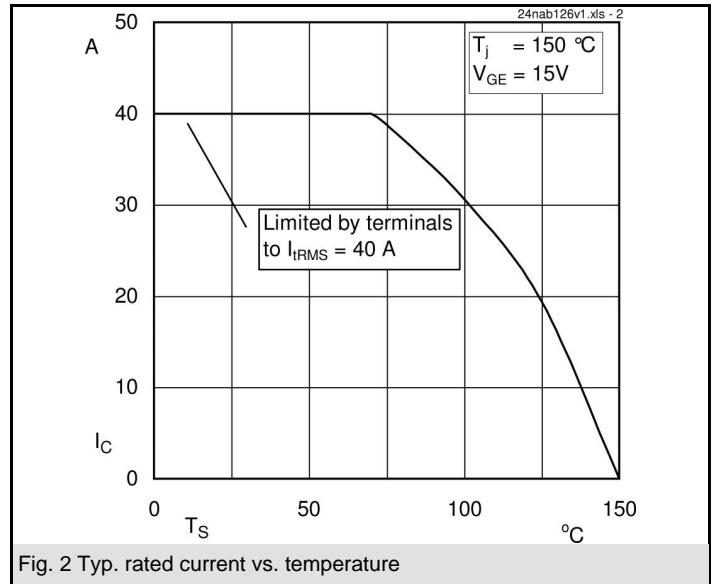
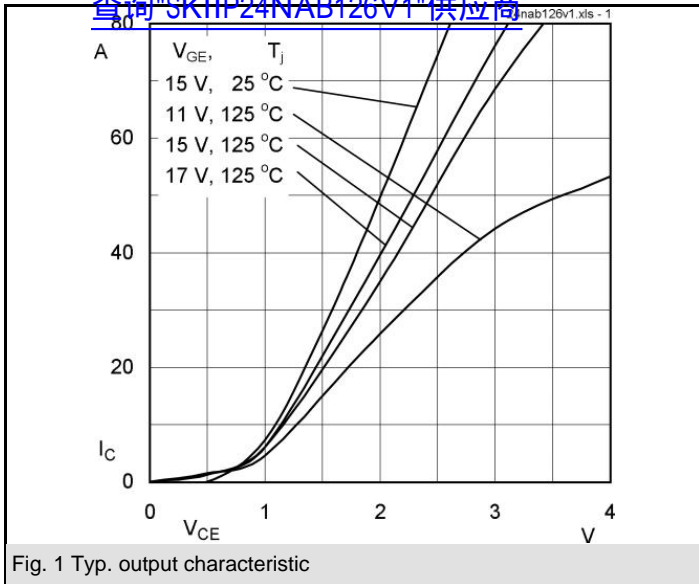


NAB

| Absolute Maximum Ratings | | $T_s = 25\text{ °C}$, unless otherwise specified | |
|----------------------------------|--------------------------------------------------------------|---------------------------------------------------|------------------|
| Symbol | Conditions | Values | Units |
| IGBT - Inverter, Chopper | | | |
| V_{CES} | $T_s = 25\text{ (70) °C}$ | 1200 | V |
| I_C | $t_p \leq 1\text{ ms}$ | 52 (40) | A |
| I_{CRM} | | 70 | A |
| V_{GES} | | ± 20 | V |
| T_j | | - 40 ... + 150 | °C |
| Diode - Inverter, Chopper | | | |
| I_F | $T_s = 25\text{ (70) °C}$ | 38 (29) | A |
| I_{FRM} | $t_p \leq 1\text{ ms}$ | 70 | A |
| T_j | | - 40 ... + 150 | °C |
| Diode - Rectifier | | | |
| V_{RRM} | $T_s = 70\text{ °C}$ | 1600 | V |
| I_F | $t_p = 10\text{ ms, sin } 180\text{ °, } T_j = 25\text{ °C}$ | 46 | A |
| I_{FSM} | $t_p = 10\text{ ms, sin } 180\text{ °, } T_j = 25\text{ °C}$ | 370 | A |
| i^2t | $t_p = 10\text{ ms, sin } 180\text{ °, } T_j = 25\text{ °C}$ | 680 | A ² s |
| T_j | | - 40 ... + 150 | °C |
| I_{tRMS} | per power terminal (20 A / spring) | 40 | A |
| T_{stg} | $T_{op} \leq T_{stg}$ | - 40 ... + 125 | °C |
| V_{isol} | AC, 1 min. | 2500 | V |

| Characteristics | | $T_s = 25\text{ °C}$, unless otherwise specified | | | |
|----------------------------------|-----------------------------------------------------------------|---------------------------------------------------|------------|-----------|-------|
| Symbol | Conditions | min. | typ. | max. | Units |
| IGBT - Inverter, Chopper | | | | | |
| V_{CEsat} | $I_{Cnom} = 35\text{ A, } T_j = 25\text{ (125) °C}$ | | 1,7 (2) | 2,1 (2,4) | V |
| $V_{GE(th)}$ | $V_{GE} = V_{CE}, I_C = 1,5\text{ mA}$ | 5 | 5,8 | 6,5 | V |
| $V_{CE(TO)}$ | $T_j = 25\text{ (125) °C}$ | | 1 (0,9) | 1,2 (1,1) | V |
| r_T | $T_j = 25\text{ (125) °C}$ | | 20 (31) | 26 (37) | mΩ |
| C_{ies} | $V_{CE} = 25\text{ V, } V_{GE} = 0\text{ V, } f = 1\text{ MHz}$ | | 2,4 | | nF |
| C_{oes} | $V_{CE} = 25\text{ V, } V_{GE} = 0\text{ V, } f = 1\text{ MHz}$ | | 0,5 | | nF |
| C_{res} | $V_{CE} = 25\text{ V, } V_{GE} = 0\text{ V, } f = 1\text{ MHz}$ | | 0,3 | | nF |
| $R_{th(j-s)}$ | per IGBT | | 0,75 | | K/W |
| $t_{d(on)}$ | under following conditions | | 80 | | ns |
| t_r | $V_{CC} = 600\text{ V, } V_{GE} = \pm 15\text{ V}$ | | 30 | | ns |
| $t_{d(off)}$ | $I_{Cnom} = 35\text{ A, } T_j = 125\text{ °C}$ | | 410 | | ns |
| t_f | $R_{Gon} = R_{Goff} = 15\text{ Ω}$ | | 120 | | ns |
| E_{on} | inductive load | | 4,6 | | mJ |
| E_{off} | | | 4 | | mJ |
| Diode - Inverter, Chopper | | | | | |
| $V_F = V_{EC}$ | $I_{Fnom} = 35\text{ A, } T_j = 25\text{ (125) °C}$ | | 1,8 (1,8) | 2,1 (2,2) | V |
| $V_{(TO)}$ | $T_j = 25\text{ (125) °C}$ | | 1 (0,8) | 1,1 (0,9) | V |
| r_T | $T_j = 25\text{ (125) °C}$ | | 23 (31) | 29 (37) | mΩ |
| $R_{th(j-s)}$ | per diode | | 1,5 | | K/W |
| I_{RRM} | under following conditions | | 43 | | A |
| Q_{rr} | $I_{Fnom} = 35\text{ A, } V_R = 600\text{ V}$ | | 7 | | μC |
| E_{rr} | $V_{GE} = 0\text{ V, } T_j = 125\text{ °C}$ | | 3,3 | | mJ |
| | $di_F/dt = 1450\text{ A/μs}$ | | | | |
| Diode - Rectifier | | | | | |
| V_F | $I_{Fnom} = 25\text{ A, } T_j = 25\text{ °C}$ | | 1,1 | | V |
| $V_{(TO)}$ | $T_j = 150\text{ °C}$ | | 0,8 | | V |
| r_T | $T_j = 150\text{ °C}$ | | 13 | | mΩ |
| $R_{th(j-s)}$ | per diode | | 1,25 | | K/W |
| Temperature Sensor | | | | | |
| R_{ts} | 3 %, $T_r = 25\text{ (100) °C}$ | | 1000(1670) | | Ω |
| Mechanical Data | | | | | |
| w | | | 65 | | g |
| M_s | Mounting torque | 2 | | 2,5 | Nm |

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