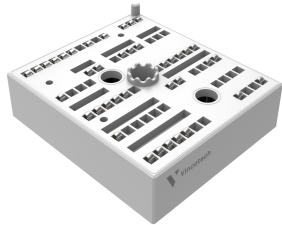
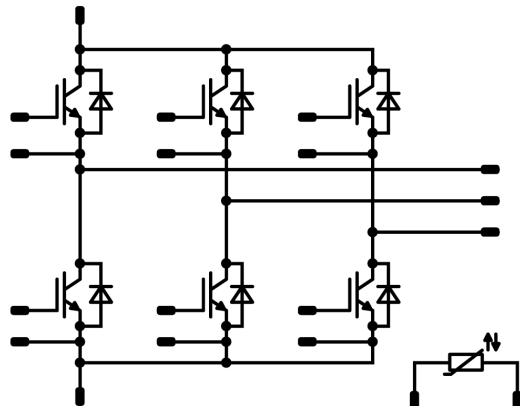




| MiniSKiiP PACK 2 | 1200 V / 75 A |
|---|--|
| Topology features <ul style="list-style-type: none">• Inverter• Kelvin Emitter for improved switching performance• Temperature sensor | MiniSKiiP® 2 16 mm housing  |
| Component features <ul style="list-style-type: none">• Easy paralleling• Low turn-off losses• Low collector emitter saturation voltage• Positive temperature coefficient• Short tail current• Switching optimized for EMC | |
| Housing features <ul style="list-style-type: none">• Base isolation: Al₂O₃• Easy assembly in one mounting step• Flexible PCB design w/o pin holes• Rugged solderless spring contacts | Schematic  |
| Extra features <ul style="list-style-type: none">• Equivalent: SKiiP 26AC12T4V1 | |
| Target applications <ul style="list-style-type: none">• Industrial Drives | |
| Types <ul style="list-style-type: none">• 80-M2126PA075M7-K719F70 | |



Vincotech

Maximum Ratings

$T_j = 25\text{ °C}$, unless otherwise specified

| Parameter | Symbol | Conditions | Value | Unit |
|-----------------------------------|------------|---------------------------------------|----------|------|
| Inverter Switch | | | | |
| Collector-emitter voltage | V_{CES} | | 1200 | V |
| Collector current (DC current) | I_C | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 90 | A |
| Repetitive peak collector current | I_{CRM} | t_p limited by T_{jmax} | 150 | A |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 196 | W |
| Gate-emitter voltage | V_{GES} | | ± 20 | V |
| Maximum junction temperature | T_{jmax} | | 175 | °C |

Inverter Diode

| | | | | |
|---------------------------------|------------|---------------------------------------|------|----|
| Peak repetitive reverse voltage | V_{RRM} | | 1200 | V |
| Forward current (DC current) | I_F | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 83 | A |
| Repetitive peak forward current | I_{FRM} | t_p limited by T_{jmax} | 200 | A |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 149 | W |
| Maximum junction temperature | T_{jmax} | | 175 | °C |

Module Properties

Thermal Properties

| | | | | |
|---|-----------|--|----------------------------|----|
| Storage temperature | T_{stg} | | -40...+125 | °C |
| Operation temperature under switching condition | T_{jop} | | -40...+($T_{jmax} - 25$) | °C |

Isolation Properties

| | | | | |
|----------------------------|------------|---|------------|----|
| Isolation voltage | V_{isol} | DC Test Voltage* $t_p = 2\text{ s}$ | 5500 | V |
| Creepage distance | | With std lid For more informations see handling instructions | 6,3 | mm |
| Clearance | | With std lid For more informations see handling instructions | 6,3 | mm |
| Comparative Tracking Index | CTI | | ≥ 600 | |

*100 % tested in production



Characteristic Values

| Parameter | Symbol | Conditions | | | | | Values | | | Unit |
|-----------|--------|------------------------------|---|-------------------------------------|------------|-----|--------|-----|--|------|
| | | V_{GE} [V] V_{GS} [V] | V_{CE} [V] V_{DS} [V] V_F [V] | I_C [A] I_D [A] I_F [A] | T_j [°C] | Min | Typ | Max | | |

Inverter Switch

Static

| | | | | | | | | | | |
|--------------------------------------|---------------|------------------|------|------|--------|------------------|-----|----------------------|--------------------|----|
| Gate-emitter threshold voltage | $V_{GE(th)}$ | | | 10 | 0,0075 | 25 | 5,4 | 6 | 6,6 | V |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | | 15 | | 75 | 25 125 150 | | 1,65 1,88 1,93 | 1,9 ⁽¹⁾ | V |
| Collector-emitter cut-off current | I_{CES} | | 0 | 1200 | | 25 | | | 100 | μA |
| Gate-emitter leakage current | I_{GES} | | 20 | 0 | | 25 | | | 500 | nA |
| Internal gate resistance | r_g | | | | | | | 4 | | Ω |
| Input capacitance | C_{ies} | | | | | | | 16000 | | pF |
| Output capacitance | C_{oes} | | 0 | 10 | | 25 | | 480 | | pF |
| Reverse transfer capacitance | C_{res} | | | | | | | 190 | | pF |
| Gate charge | Q_g | $V_{CC} = 600$ V | 0/15 | | 75 | 25 | | 570 | | nC |

Thermal

| | | | | | | | | | | |
|--|---------------|--|--|--|--|--|--|------|--|-----|
| Thermal resistance junction to sink ⁽²⁾ | $R_{th(j-s)}$ | $\lambda_{paste} = 2,5$ W/mK (HPTP) | | | | | | 0,49 | | K/W |
|--|---------------|--|--|--|--|--|--|------|--|-----|

Dynamic

| | | | | | | | | | | |
|-----------------------------|--------------|---|--|--|--|------------------|--|----------------------------|--|-----|
| Turn-on delay time | $t_{d(on)}$ | | | | | 25 125 150 | | 200,03 210,67 213,3 | | ns |
| Rise time | t_r | | | | | 25 125 150 | | 49,99 57,87 60,37 | | ns |
| Turn-off delay time | $t_{d(off)}$ | | | | | 25 125 150 | | 194,97 228,24 236,62 | | ns |
| Fall time | t_f | | | | | 25 125 150 | | 85,8 116,19 121,12 | | ns |
| Turn-on energy (per pulse) | E_{on} | $Q_{tFWD} = 7$ μC $Q_{tFWD} = 11,67$ μC $Q_{tFWD} = 13,24$ μC | | | | 25 125 150 | | 7,33 9,85 10,67 | | mWs |
| Turn-off energy (per pulse) | E_{off} | | | | | 25 125 150 | | 5,35 7,32 7,9 | | mWs |



Characteristic Values

| Parameter | Symbol | Conditions | | | | | Values | | | Unit |
|--|-------------------|---|---|-------------------------------------|------------|------------------|--------|----------------------------|--------------------|------|
| | | V_{GE} [V] V_{GS} [V] | V_{CE} [V] V_{DS} [V] V_F [V] | I_C [A] I_D [A] I_F [A] | T_j [°C] | Min | Typ | Max | | |
| Inverter Diode | | | | | | | | | | |
| Static | | | | | | | | | | |
| Forward voltage | V_F | | | | 100 | 25 125 150 | | 1,73 1,89 1,89 | 2,1 ⁽¹⁾ | V |
| Reverse leakage current | I_R | $V_r = 1200$ V | | | | 25 | | | 40 | μA |
| Thermal | | | | | | | | | | |
| Thermal resistance junction to sink ⁽²⁾ | $R_{th(j-s)}$ | $\lambda_{paste} = 2,5$ W/mK (HPTP) | | | | | | 0,64 | | K/W |
| Dynamic | | | | | | | | | | |
| Peak recovery current | I_{RM} | $di/dt=1241$ A/μs $di/dt=1028$ A/μs $di/dt=1064$ A/μs | ±15 | 600 | 75 | 25 125 150 | | 49,24 56,08 58,34 | | A |
| Reverse recovery time | t_{rr} | | | | | 25 125 150 | | 299,23 445,17 491,62 | | ns |
| Recovered charge | Q_r | | | | | 25 125 150 | | 7 11,67 13,24 | | μC |
| Reverse recovered energy | E_{rec} | | | | | 25 125 150 | | 2,45 4,38 5,02 | | mWs |
| Peak rate of fall of recovery current | $(di_r/dt)_{max}$ | | | | | 25 125 150 | | 473,22 248,65 246,49 | | A/μs |



Characteristic Values

| Parameter | Symbol | Conditions | | | | | Values | | | Unit | |
|-----------|--------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|-----------|------|------------|
| | | V_{GS} [V] | V_{GE} [V] | V_{DS} [V] | V_{CE} [V] | V_F [V] | I_D [A] | I_C [A] | I_F [A] | | T_j [°C] |

Thermistor

Static

| | | | | | | | | | | |
|--------------------------------|-----------|-------------------------|--|--|--|-----|----|------------------------|---|------------------|
| Rated resistance | R | | | | | 25 | | 1 | | kΩ |
| Deviation of R100 | $A_{R/R}$ | $R_{100} = 1670 \Omega$ | | | | 100 | -2 | | 2 | % |
| Maximum Current | I_{max} | | | | | | | 3 | | mA |
| Power dissipation constant | d | | | | | 25 | | 0,76 | | mW/K |
| A-value | A | | | | | | | $7,635 \times 10^{-3}$ | | 1/K |
| B-value | B | | | | | | | $1,73 \times 10^{-5}$ | | 1/K ² |
| Vincotech Thermistor Reference | | | | | | | | | E | |

⁽¹⁾ Value at chip level

⁽²⁾ Only valid with pre-applied Vincotech thermal interface material.

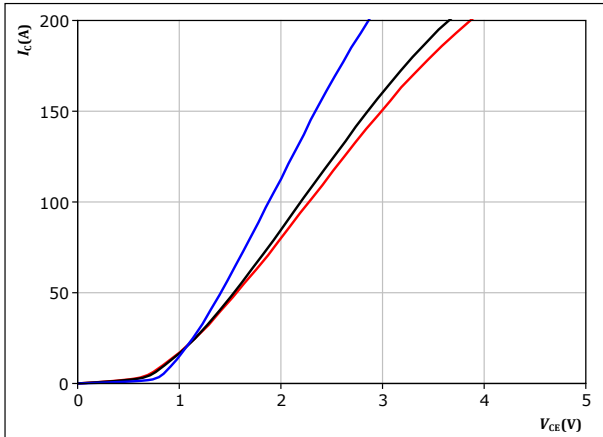


Inverter Switch Characteristics

figure 1. IGBT

Typical output characteristics

$$I_C = f(V_{CE})$$

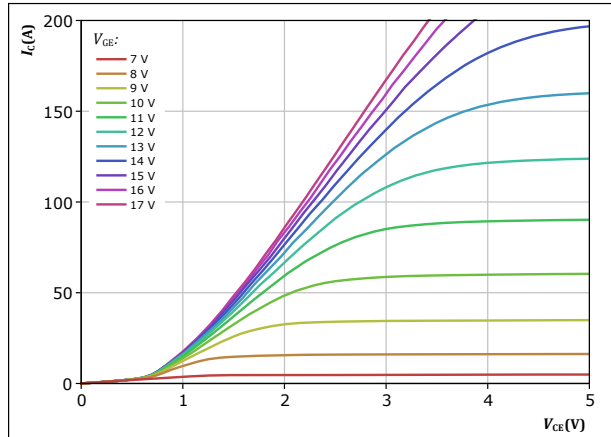


$t_p = 250 \mu s$
 $V_{GE} = 15 V$
 $T_j:$ — 25 °C
— 125 °C
— 150 °C

figure 2. IGBT

Typical output characteristics

$$I_C = f(V_{CE})$$

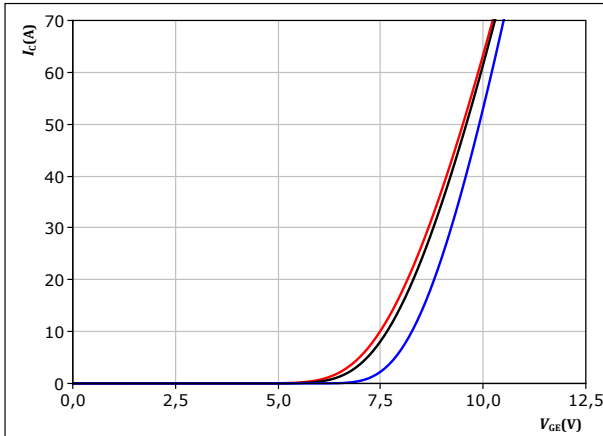


$t_p = 250 \mu s$
 $T_j = 150 \text{ }^\circ C$
 V_{GE} from 7 V to 17 V in steps of 1 V

figure 3. IGBT

Typical transfer characteristics

$$I_C = f(V_{GE})$$

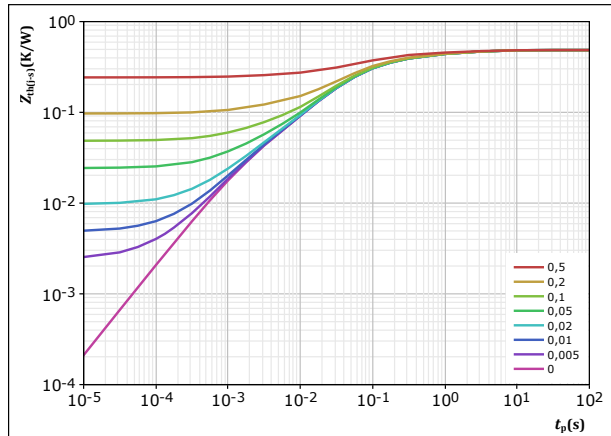


$t_p = 250 \mu s$
 $V_{CE} = 29 V$
 $T_j:$ — 25 °C
— 125 °C
— 150 °C

figure 4. IGBT

Transient thermal impedance as a function of pulse width

$$Z_{th(j-s)} = f(t_p)$$



$D = t_p / T$
 $R_{th(j-s)} = 0,485 \text{ K/W}$
IGBT thermal model values

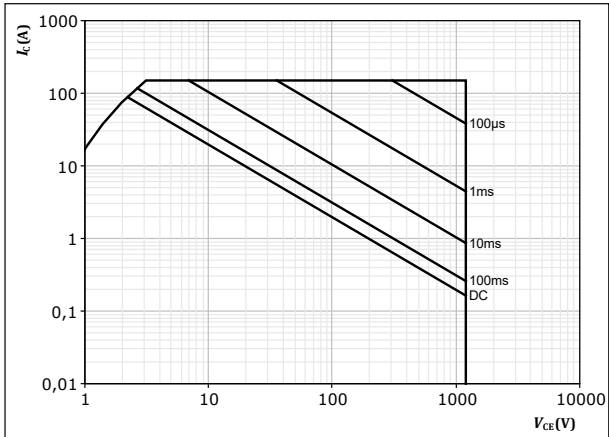
| R (K/W) | τ (s) |
|----------|------------|
| 4,46E-02 | 3,29E+00 |
| 9,58E-02 | 4,86E-01 |
| 2,34E-01 | 7,16E-02 |
| 8,94E-02 | 1,82E-02 |
| 2,13E-02 | 1,68E-03 |



Inverter Switch Characteristics

figure 5. IGBT

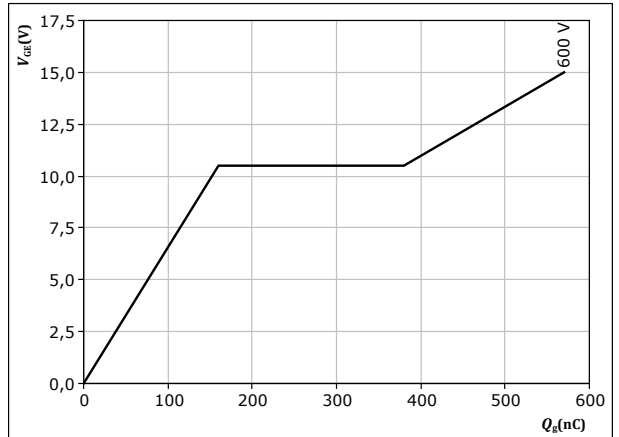
Safe operating area
 $I_C = f(V_{CE})$



$D =$ single pulse
 $T_s = 80 \text{ } ^\circ\text{C}$
 $V_{GE} = 15 \text{ V}$
 $T_j = T_{jmax}$

figure 6. IGBT

Gate voltage vs gate charge
 $V_{GE} = f(Q_g)$



$I_C = 75 \text{ A}$
 $T_j = 25 \text{ } ^\circ\text{C}$



Inverter Diode Characteristics

figure 7. FWD

Typical forward characteristics

$$I_F = f(V_F)$$

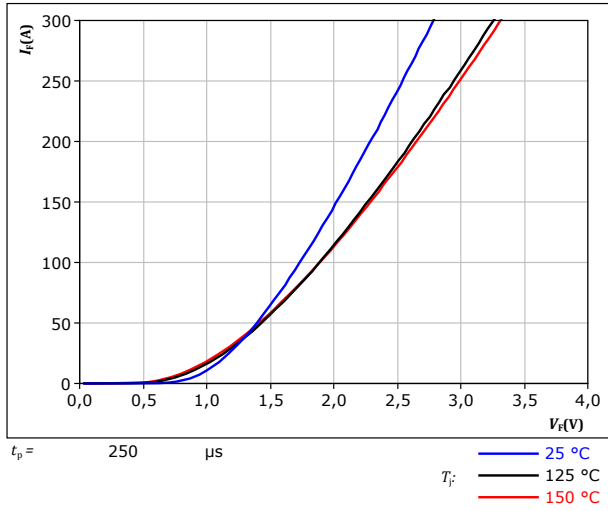
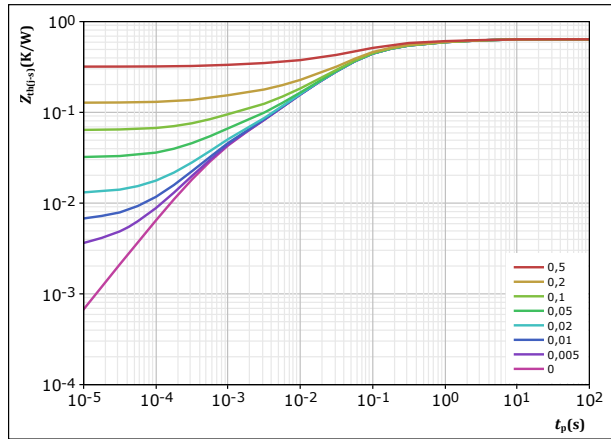


figure 8. FWD

Transient thermal impedance as a function of pulse width

$$Z_{th(j-s)} = f(t_p)$$



$D = \frac{t_p}{T}$
 $R_{th(j-s)} = 0,638 \text{ K/W}$
 FWD thermal model values

| R (K/W) | τ (s) |
|----------|------------|
| 5,25E-02 | 2,69E+00 |
| 9,82E-02 | 3,95E-01 |
| 3,56E-01 | 6,01E-02 |
| 9,63E-02 | 8,86E-03 |
| 3,49E-02 | 6,87E-04 |

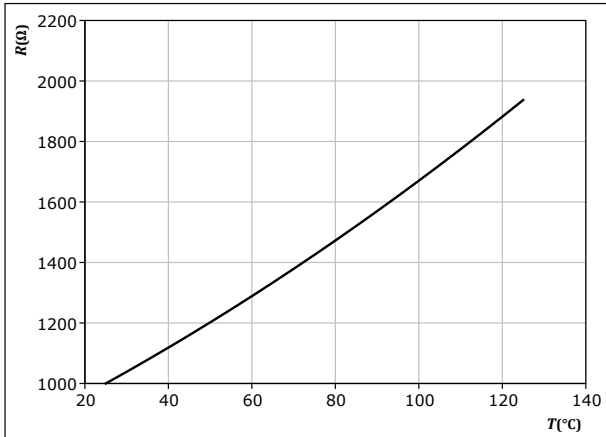


Thermistor Characteristics

figure 9. Thermistor

Typical PTC characteristic as function of temperature

$$R_T = f(T)$$

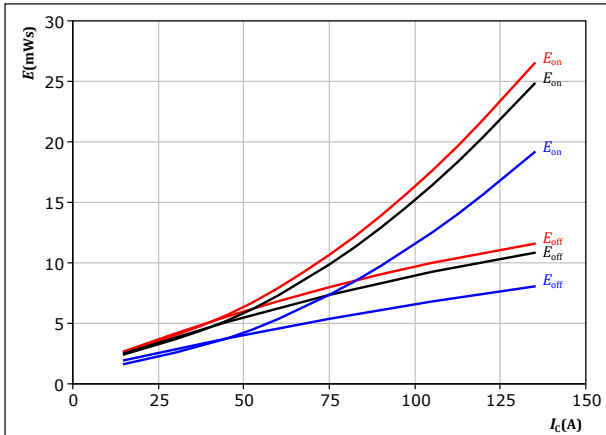




Inverter Switching Characteristics

figure 10. IGBT

Typical switching energy losses as a function of collector current
 $E = f(I_c)$

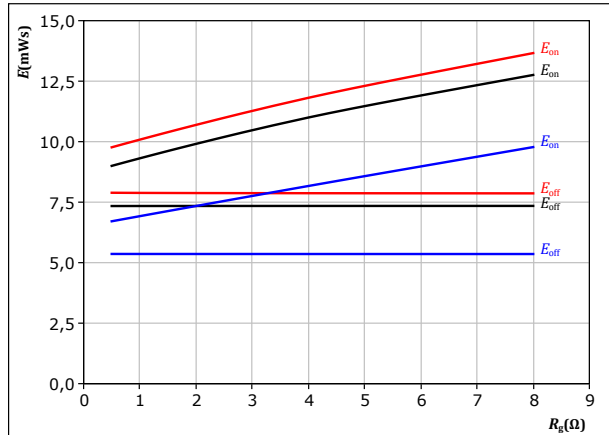


With an inductive load at

| | | |
|---------------------|---------|----------|
| $V_{CE} = 600$ V | T_j : | — 25 °C |
| $V_{GE} = \pm 15$ V | | — 125 °C |
| $R_{g(on)} = 2$ Ω | | — 150 °C |
| $R_{g(off)} = 2$ Ω | | |

figure 11. IGBT

Typical switching energy losses as a function of IGBT turn on gate resistor
 $E = f(R_g)$

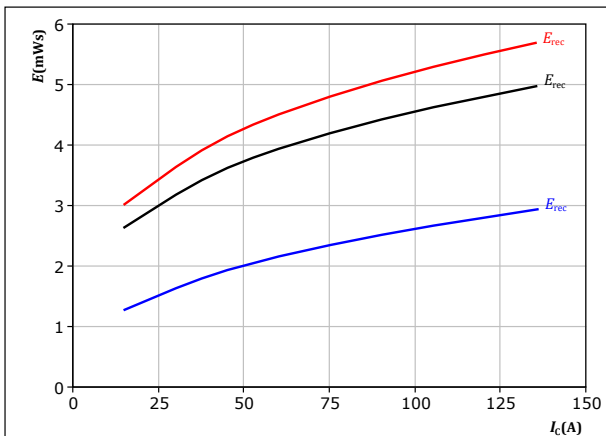


With an inductive load at

| | | |
|---------------------|---------|----------|
| $V_{CE} = 600$ V | T_j : | — 25 °C |
| $V_{GE} = \pm 15$ V | | — 125 °C |
| $I_c = 75$ A | | — 150 °C |

figure 12. FWD

Typical reverse recovered energy loss as a function of collector current
 $E_{rec} = f(I_c)$

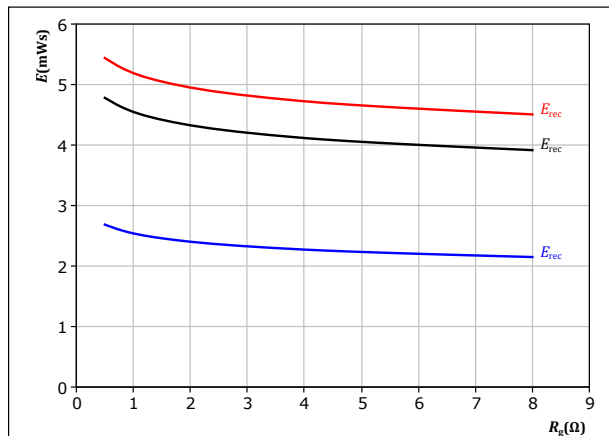


With an inductive load at

| | | |
|---------------------|---------|----------|
| $V_{CE} = 600$ V | T_j : | — 25 °C |
| $V_{GE} = \pm 15$ V | | — 125 °C |
| $R_{g(on)} = 2$ Ω | | — 150 °C |

figure 13. FWD

Typical reverse recovered energy loss as a function of IGBT turn on gate resistor
 $E_{rec} = f(R_g)$



With an inductive load at

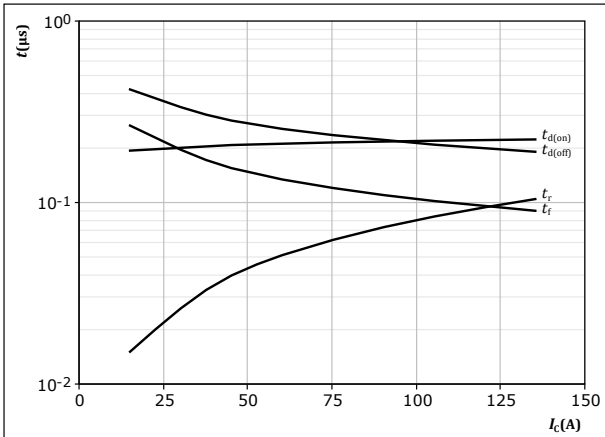
| | | |
|---------------------|---------|----------|
| $V_{CE} = 600$ V | T_j : | — 25 °C |
| $V_{GE} = \pm 15$ V | | — 125 °C |
| $I_c = 75$ A | | — 150 °C |



Inverter Switching Characteristics

figure 14. IGBT

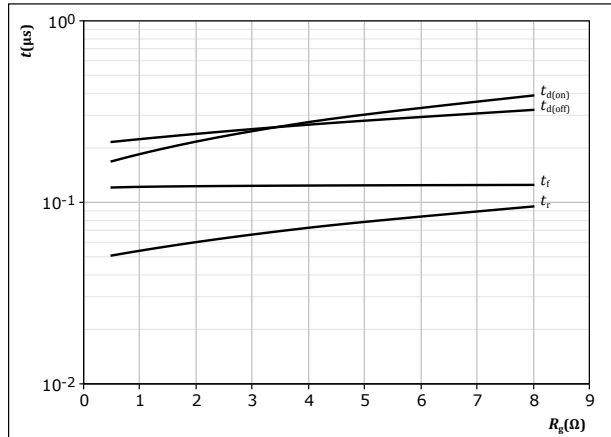
Typical switching times as a function of collector current
 $t = f(I_c)$



With an inductive load at
 $T_j = 150$ °C
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $R_{gon} = 2$ Ω
 $R_{goff} = 2$ Ω

figure 15. IGBT

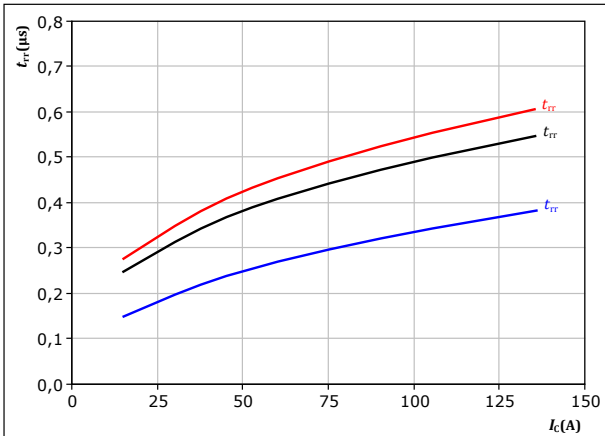
Typical switching times as a function of IGBT turn on gate resistor
 $t = f(R_g)$



With an inductive load at
 $T_j = 150$ °C
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $I_c = 75$ A

figure 16. FWD

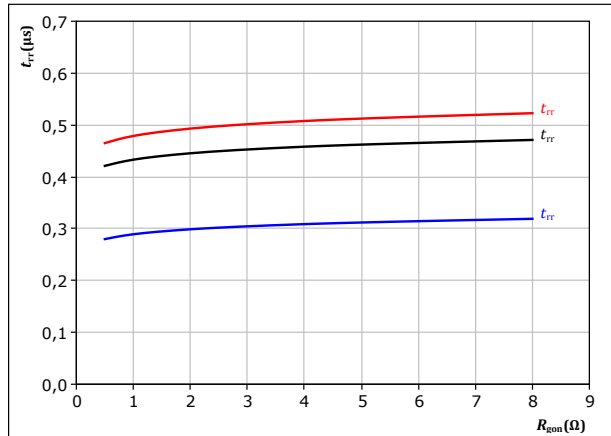
Typical reverse recovery time as a function of collector current
 $t_{rr} = f(I_c)$



With an inductive load at
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $R_{gon} = 2$ Ω
 $T_j:$ — 25 °C
— 125 °C
— 150 °C

figure 17. FWD

Typical reverse recovery time as a function of IGBT turn on gate resistor
 $t_{rr} = f(R_{gon})$



With an inductive load at
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $I_c = 75$ A
 $T_j:$ — 25 °C
— 125 °C
— 150 °C

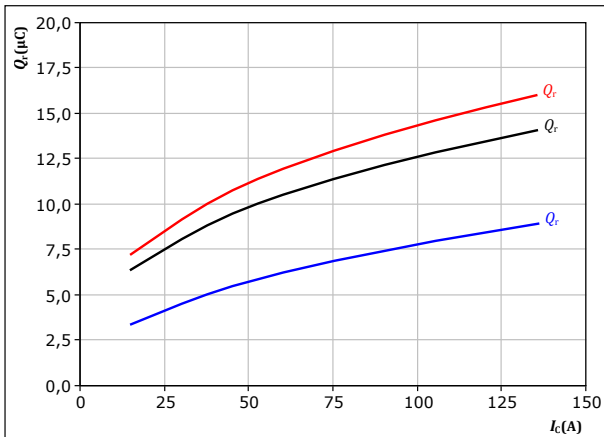


Inverter Switching Characteristics

figure 18. FWD

Typical recovered charge as a function of collector current

$$Q_r = f(I_c)$$



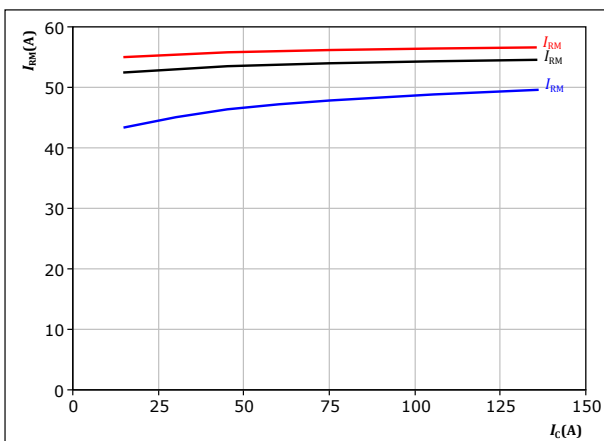
With an inductive load at

$V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $R_{gon} = 2$ Ω
 $T_j:$ — 25 °C
 — 125 °C
 — 150 °C

figure 20. FWD

Typical peak reverse recovery current as a function of collector current

$$I_{RM} = f(I_c)$$



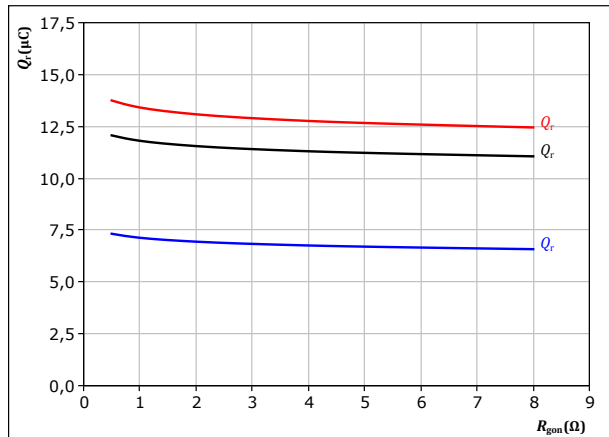
With an inductive load at

$V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $R_{gon} = 2$ Ω
 $T_j:$ — 25 °C
 — 125 °C
 — 150 °C

figure 19. FWD

Typical recovered charge as a function of IGBT turn on gate resistor

$$Q_r = f(R_{gon})$$



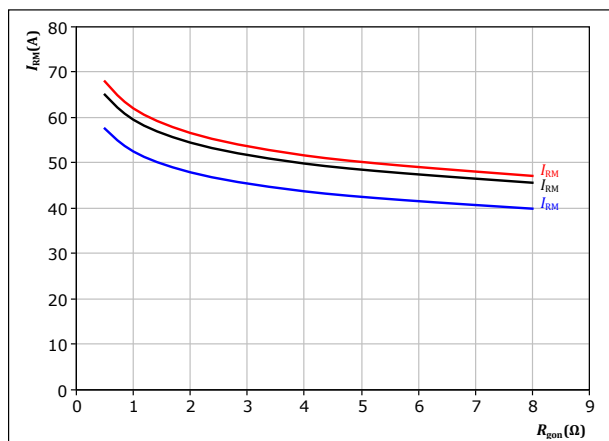
With an inductive load at

$V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $I_c = 75$ A
 $T_j:$ — 25 °C
 — 125 °C
 — 150 °C

figure 21. FWD

Typical peak reverse recovery current as a function of IGBT turn on gate resistor

$$I_{RM} = f(R_{gon})$$



With an inductive load at

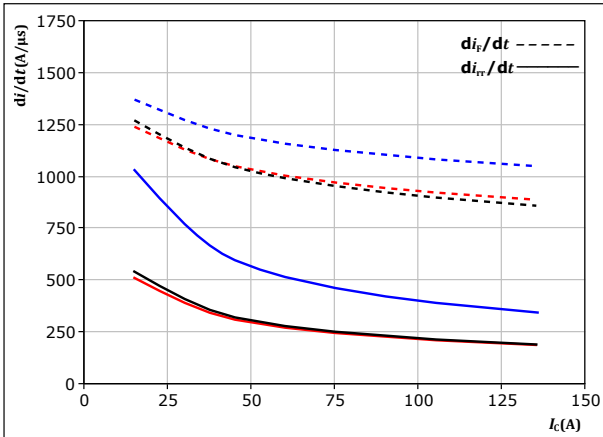
$V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $I_c = 75$ A
 $T_j:$ — 25 °C
 — 125 °C
 — 150 °C



Inverter Switching Characteristics

figure 22. FWD

Typical rate of fall of forward and reverse recovery current as a function of collector current
 $di_f/dt, di_r/dt = f(I_c)$



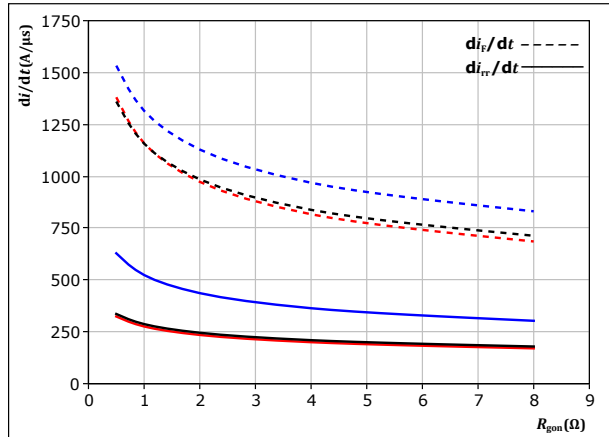
With an inductive load at

$V_{CE} = 600 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $R_{gon} = 2 \ \Omega$

$T_j =$ — 25 °C
 — 125 °C
 — 150 °C

figure 23. FWD

Typical rate of fall of forward and reverse recovery current as a function of turn on gate resistor
 $di_f/dt, di_r/dt = f(R_{gon})$



With an inductive load at

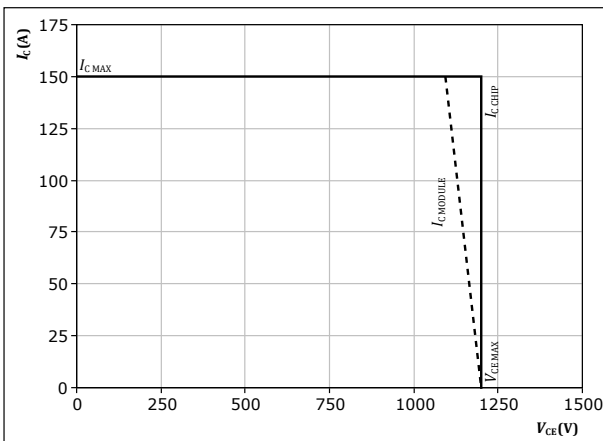
$V_{CE} = 600 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $I_c = 75 \text{ A}$

$T_j =$ — 25 °C
 — 125 °C
 — 150 °C

figure 24. IGBT

Reverse bias safe operating area

$I_c = f(V_{CE})$



At $T_j = 150 \text{ °C}$
 $R_{gon} = 2 \ \Omega$
 $R_{goff} = 2 \ \Omega$



Inverter Switching Definitions

figure 25. IGBT
Turn-off Switching Waveforms & definition of t_{doff} , t_{Eoff} (t_{Eoff} = integrating time for E_{off})

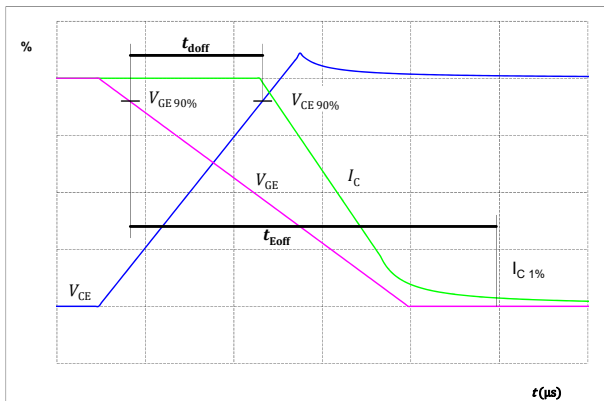


figure 26. IGBT
Turn-on Switching Waveforms & definition of t_{don} , t_{Eon} (t_{Eon} = integrating time for E_{on})



figure 27. IGBT
Turn-off Switching Waveforms & definition of t_f

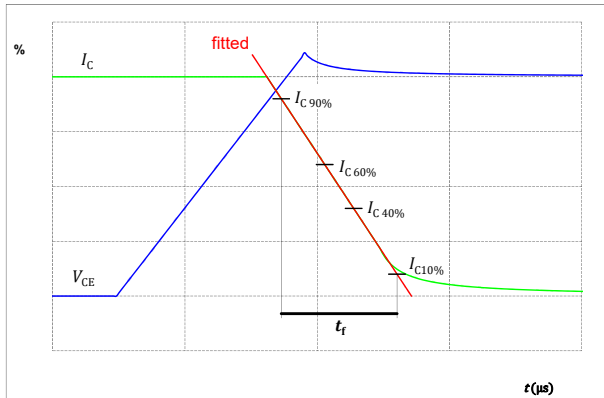
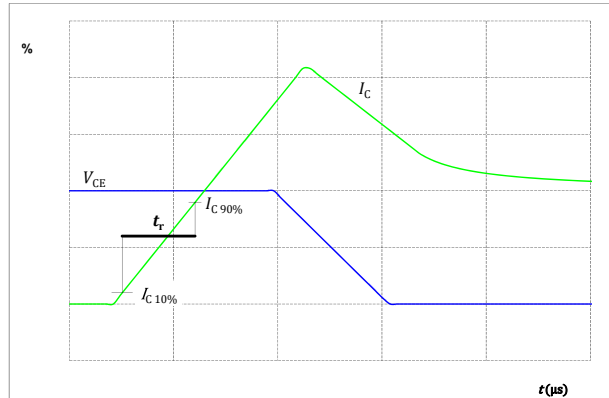


figure 28. IGBT
Turn-on Switching Waveforms & definition of t_r





Inverter Switching Definitions

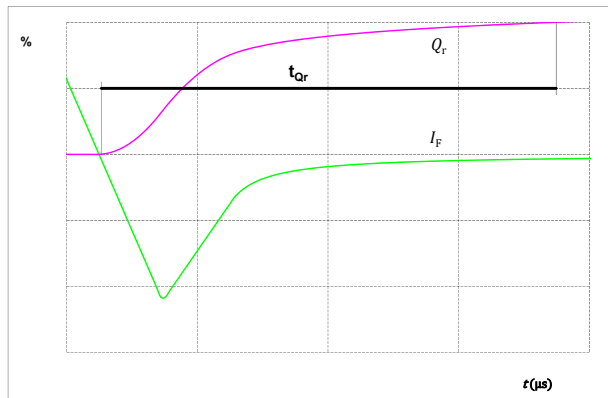
figure 29. FWD

Turn-off Switching Waveforms & definition of t_{rr}



figure 30. FWD


Turn-on Switching Waveforms & definition of t_{Qr} (t_{Qr} = integrating time for Q_r)



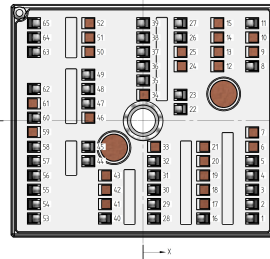


Vincotech

| Ordering Code | |
|--|------------------------------|
| Version | Ordering Code |
| With std lid (6.5mm height) + no thermal grease | 80-M2126PA075M7-K719F70-/0A/ |
| With thin lid (2.8mm height) + no thermal grease | 80-M2126PA075M7-K719F70-/0B/ |
| With std lid (6.5mm height) + thermal grease (0,8 W/mK, P12, silicone-based) | 80-M2126PA075M7-K719F70-/1A/ |
| With thin lid (2.8mm height) + thermal grease (0,8 W/mK, P12, silicone-based) | 80-M2126PA075M7-K719F70-/1B/ |
| With std lid (6.5mm height) + thermal grease (2,5 W/mK, TG20032, silicone-free) | 80-M2126PA075M7-K719F70-/4A/ |
| With thin lid (2.8mm height) + thermal grease (2,5 W/mK, TG20032, silicone-free) | 80-M2126PA075M7-K719F70-/4B/ |
| With std lid (6.5mm height) + thermal grease (2,5 W/mK, HPTP, silicone-based) | 80-M2126PA075M7-K719F70-/5A/ |
| With thin lid (2.8mm height) + thermal grease (2,5 W/mK, HPTP, silicone-based) | 80-M2126PA075M7-K719F70-/5B/ |

| Marking | | | | | | |
|------------|---|--------------------------------|------------|----------|-----------|--------|
| Text | Name | | Date code | UL & VIN | Lot | Serial |
| |  | NN-NNNNNNNNNNNNNN- TTTTTTTV | | WWYY | UL VIN | LLLLL |
| Datamatrix | | Type&Ver | Lot number | Serial | Date code | |
| | TTTTTTTV | LLLLL | SSSS | WWYY | | |

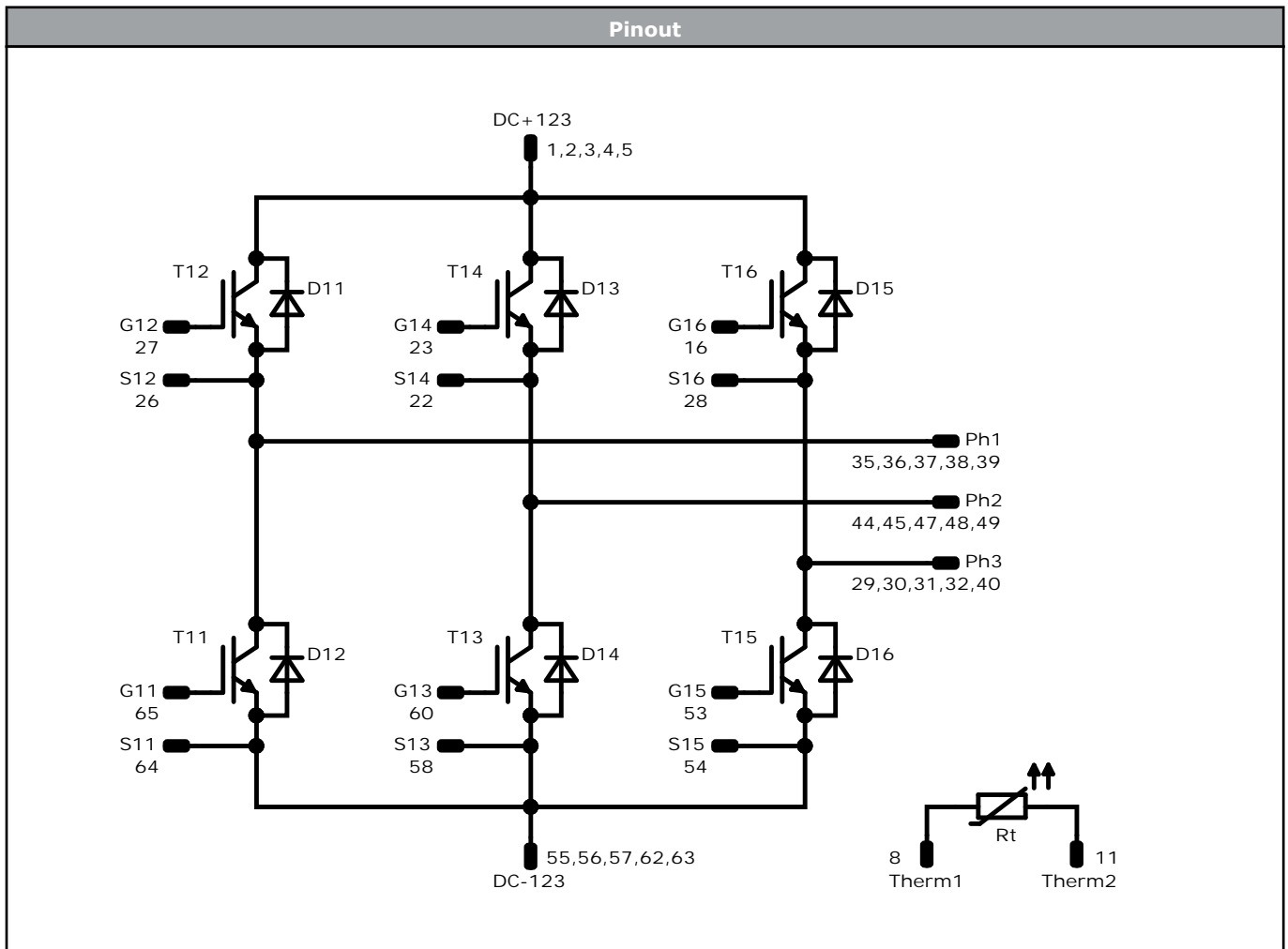
| Outline | | | | | | | |
|----------------|---------------|-------|----------|----|---------------|-------|--------|
| Pin table [mm] | | | | | | | |
| Pin | X | Y | Function | 34 | not assembled | | |
| 1 | 24,38 | -21,8 | DC+123 | 35 | 0,03 | 9 | Ph1 |
| 2 | 24,38 | -18,6 | DC+123 | 36 | 0,03 | 12,2 | Ph1 |
| 3 | 24,38 | -15,4 | DC+123 | 37 | 0,03 | 15,4 | Ph1 |
| 4 | 24,38 | -12,2 | DC+123 | 38 | 0,03 | 18,6 | Ph1 |
| 5 | 24,38 | -9 | DC+123 | 39 | 0,03 | 21,8 | Ph1 |
| 6 | not assembled | | | 40 | -8,5 | -21,8 | Ph3 |
| 7 | not assembled | | | 41 | not assembled | | |
| 8 | 24,38 | 12,2 | Therm1 | 42 | not assembled | | |
| 9 | not assembled | | | 43 | not assembled | | |
| 10 | not assembled | | | 44 | -12,22 | -9 | Ph2 |
| 11 | 24,38 | 21,8 | Therm2 | 45 | -12,22 | -5,8 | Ph2 |
| 12 | not assembled | | | 46 | not assembled | | |
| 13 | not assembled | | | 47 | -12,22 | 3,9 | Ph2 |
| 14 | not assembled | | | 48 | -12,22 | 7,1 | Ph2 |
| 15 | not assembled | | | 49 | -12,22 | 10,3 | Ph2 |
| 16 | 13,42 | -21,8 | G16 | 50 | not assembled | | |
| 17 | not assembled | | | 51 | not assembled | | |
| 18 | not assembled | | | 52 | not assembled | | |
| 19 | not assembled | | | 53 | -24,38 | -21,8 | G15 |
| 20 | not assembled | | | 54 | -24,38 | -18,6 | S15 |
| 21 | not assembled | | | 55 | -24,38 | -15,4 | DC-123 |
| 22 | 8,38 | 2,6 | S14 | 56 | -24,38 | -12,2 | DC-123 |
| 23 | 8,38 | 5,8 | G14 | 57 | -24,38 | -9 | DC-123 |
| 24 | not assembled | | | 58 | -24,38 | -5,8 | S13 |
| 25 | not assembled | | | 59 | not assembled | | |
| 26 | 8,38 | 18,6 | S12 | 60 | -24,38 | 0,7 | G13 |
| 27 | 8,38 | 21,8 | G12 | 61 | not assembled | | |
| 28 | 2,46 | -21,8 | S16 | 62 | -24,38 | 7,1 | DC-123 |
| 29 | 2,46 | -18,6 | Ph3 | 63 | -24,38 | 15,4 | DC-123 |
| 30 | 2,46 | -15,4 | Ph3 | 64 | -24,38 | 18,6 | S11 |
| 31 | 2,46 | -12,2 | Ph3 | 65 | -24,38 | 21,8 | G11 |
| 32 | 2,46 | -9 | Ph3 | | | | |
| 33 | not assembled | | | | | | |



Pad positions refers to center point. For more informations on pad design please see package data



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| Identification | | | | | |
|------------------------------|-----------|---------|---------|-----------------|---------|
| ID | Component | Voltage | Current | Function | Comment |
| T11, T12, T13, T14, T15, T16 | IGBT | 1200 V | 75 A | Inverter Switch | |
| D11, D12, D13, D14, D15, D16 | FWD | 1200 V | 100 A | Inverter Diode | |
| Rt | PTC | | | Thermistor | |



| Packaging instruction | | | | |
|--------------------------------------|------|----------|------|--------|
| Standard packaging quantity (SPQ) 72 | >SPQ | Standard | <SPQ | Sample |

| Handling instruction |
|--|
| Handling instructions for MiniSKiiP® 2 packages see vincotech.com website. |

| Package data |
|---|
| Package data for MiniSKiiP® 2 packages see vincotech.com website. |

| Vincotech thermistor reference |
|--|
| See Vincotech thermistor reference table at vincotech.com website. |

| UL recognition and file number |
|--|
| This device is UL 1557 recognized under E192116 up to a junction temperature under switching condition $T_{j,op}=150^{\circ}C$ and up to 2500VAC/1min isolation voltage. For more information see vincotech.com website. |



| Document No.: | Date: | Modification: | Pages |
|-------------------------------|--------------|---|-------|
| 80-M2126PA075M7-K719F70-D3-14 | 22 Feb. 2024 | New Datasheet format, module is unchanged Correct tau values of thermal characteristic Updated dynamic characteristic | |

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