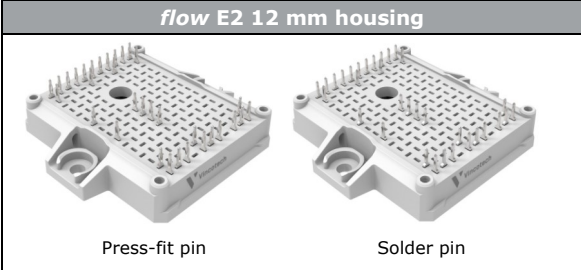
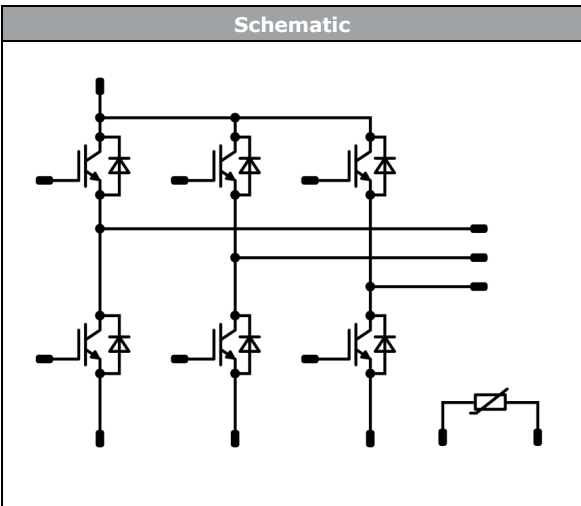




Vincotech

10-EY126PA075M7-L197F78T
10-E2126PA075M7-L197F78Z
 datasheet

| <i>flowPACK E2</i> | 1200 V / 75 A |
|--|--|
| <div style="background-color: #eee; padding: 2px; margin-bottom: 5px;">Features</div> <ul style="list-style-type: none"> IGBT Mitsubishi gen 7 technology with low V_{CEsat} and Improved EMC behavior Standard industrial package Built-in NTC | <div style="background-color: #eee; padding: 2px; margin-bottom: 5px;">flow E2 12 mm housing</div> <div style="text-align: center;">  <p style="display: flex; justify-content: space-around; margin-top: 5px;"> Press-fit pin Solder pin </p> </div> |
| <div style="background-color: #eee; padding: 2px; margin-bottom: 5px;">Target applications</div> <ul style="list-style-type: none"> Industrial Drives UPS | <div style="background-color: #eee; padding: 2px; margin-bottom: 5px;">Schematic</div>  |
| <div style="background-color: #eee; padding: 2px; margin-bottom: 5px;">Types</div> <ul style="list-style-type: none"> 10-EY126PA075M7-L197F78T 10-E2126PA075M7-L197F78Z | |

Maximum Ratings

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

| Parameter | Symbol | Condition | Value | Unit |
|-----------------------------------|------------|--|-------|------|
| Inverter Switch | | | | |
| Collector-emitter voltage | V_{CES} | | 1200 | V |
| Collector current | I_C | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 74 | A |
| Repetitive peak collector current | I_{CRM} | t_p limited by T_{jmax} | 150 | A |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 135 | W |
| Gate-emitter voltage | V_{GES} | | ±20 | V |
| Short circuit ratings | t_{SC} | $V_{GE} = 15\text{ V}$ $V_{CE} = 800\text{ V}$ $T_j = 150\text{ °C}$ | 9,5 | µs |
| Maximum junction temperature | T_{jmax} | | 175 | °C |



Maximum Ratings

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

| Parameter | Symbol | Condition | Value | Unit |
|-------------------------------------|------------|---------------------------------------|-------|------|
| Inverter Diode | | | | |
| Peak repetitive reverse voltage | V_{RRM} | | 1200 | V |
| Continuous (direct) forward current | I_F | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 72 | A |
| Repetitive peak forward current | I_{FRM} | | 200 | A |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 121 | 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* $t_p = 2\text{ s}$ | 6000 | V |
| | | AC Voltage $t_p = 1\text{ min}$ | 2500 | V |
| Creepage distance | | | min. 12,7 | mm |
| Clearance | | | 9,08 | mm |
| Comparative Tracking Index | CTI | | ≥ 600 | |

*100 % tested in production



Vincotech

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 datasheet

Characteristic Values

| Parameter | Symbol | Conditions | | | | | Value | | | Unit |
|-----------|--------|--------------|--------------|--------------|-----------|------------|-------|-----|-----|------|
| | | V_{GS} [V] | V_{GE} [V] | V_{DS} [V] | I_D [A] | T_j [°C] | Min | Typ | Max | |

Inverter Switch

Static

| Parameter | Symbol | $V_{GE} = V_{CE}$ | V_{GS} [V] | V_{GE} [V] | I_D [A] | T_j [°C] | Min | Typ | Max | Unit |
|--------------------------------------|--------------|-------------------|--------------|--------------|-----------|------------------|-----|----------------------|-----|------|
| Gate-emitter threshold voltage | $V_{GE(th)}$ | | | | 0,0075 | 25 | 5,4 | 6 | 6,6 | V |
| Collector-emitter saturation voltage | V_{CESat} | | 15 | | 75 | 25 125 150 | | 1,55 1,70 1,75 | 1,9 | 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 | | |
| Reverse transfer capacitance | C_{res} | | | | | | | 190 | | |
| Gate charge | Q_g | | 15 | 600 | 75 | 25 | | 570 | | nC |

Thermal

| Parameter | Symbol | Value | Unit |
|-------------------------------------|---------------|------------------------------------|------|
| Thermal resistance junction to sink | $R_{th(j-s)}$ | $\lambda_{paste} = 3,4$ W/mK (PSX) | K/W |

Dynamic

| Parameter | Symbol | $R_{gon} = 2$ Ω $R_{goff} = 2$ Ω | V_{GS} [V] | V_{GE} [V] | I_D [A] | T_j [°C] | Min | Typ | Max | Unit |
|------------------------------|--------------|---|--------------|--------------|-----------|------------|-----|------|-----|------|
| Turn-on delay time | $t_{d(on)}$ | | ±15 | 600 | 75 | 25 | | 197 | | ns |
| Rise time | t_r | | | | | 125 | | 208 | | |
| | | | | | | 150 | | 212 | | |
| | | | | | | 25 | | 29 | | |
| Turn-off delay time | $t_{d(off)}$ | 125 | | 38 | | | | | | |
| | | 150 | | 39 | | | | | | |
| | | 25 | | 203 | | | | | | |
| Fall time | t_f | 125 | | 233 | | | | | | |
| | | 150 | | 242 | | | | | | |
| | | 25 | | 86 | | | | | | |
| Turn-on energy (per pulse)* | E_{on} | $Q_{tFWD} = 8,5$ μC $Q_{tFWD} = 13,4$ μC $Q_{tFWD} = 15,3$ μC | | | | 25 | | 5,56 | | mWs |
| | | | | | | 125 | | 7,82 | | |
| | | | | | | 150 | | 8,50 | | |
| Turn-off energy (per pulse)* | E_{off} | | | | | 25 | | 5,08 | | |
| | | | | | | 125 | | 6,80 | | |
| | | | | | | 150 | | 7,29 | | |

* $L_s = 12$ nH



Characteristic Values

| Parameter | Symbol | Conditions | | | | | Value | | | Unit |
|-----------|--------|--------------|--------------|-----------|------------|-----|-------|-----|--|------|
| | | V_{GE} [V] | V_{CE} [V] | I_C [A] | T_j [°C] | Min | Typ | Max | | |

Inverter Diode

Static

| Parameter | Symbol | V_{GS} [V] | V_{DS} [V] | I_D [A] | T_j [°C] | Min | Typ | Max | Unit |
|-------------------------|--------|--------------|--------------|-----------|------------------|-----|----------------------|-----|------|
| Forward voltage | V_F | | | 100 | 25 125 150 | | 1,82 1,96 1,97 | 2,1 | V |
| Reverse leakage current | I_R | | 1200 | | 25 | | | 40 | µA |

Thermal

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------------------|---------------|------------------------------------|-----|------|-----|------|
| Thermal resistance junction to sink | $R_{th(j-s)}$ | $\lambda_{paste} = 3,4$ W/mK (PSX) | | 0,79 | | K/W |

Dynamic

| Parameter | Symbol | V_{GS} [V] | V_{DS} [V] | I_D [A] | T_j [°C] | Min | Typ | Max | Unit |
|---------------------------------------|----------------------|--------------|--------------|-----------|------------------|-----|------------------------|-----|------|
| Peak recovery current | I_{RRM} | | | | 25 125 150 | | 75 77 78 | | A |
| Reverse recovery time | t_{rr} | | | | 25 125 150 | | 278 432 459 | | ns |
| Recovered charge | Q_r | | | ±15 | 600 | 75 | 8,54 13,39 15,31 | | µC |
| Reverse recovered energy | E_{rec} | | | | 25 125 150 | | 3,20 5,19 6,00 | | mWs |
| Peak rate of fall of recovery current | $(di_{rr}/dt)_{max}$ | | | | 25 125 150 | | 802 614 544 | | A/µs |

Thermistor

| Parameter | Symbol | Conditions | T_j [°C] | Min | Typ | Max | Unit |
|----------------------------|----------------|------------------------|------------|-----|------|-----|------|
| Rated resistance | R | | 25 | | 5 | | kΩ |
| Deviation of R_{100} | $\Delta_{R/R}$ | $R_{100} = 493 \Omega$ | 100 | -5 | | +5 | % |
| Power dissipation | P | | 25 | | 245 | | mW |
| Power dissipation constant | | | 25 | | 1,4 | | mW/K |
| B-value | $B_{(25/50)}$ | Tol. ±2 % | 25 | | 3375 | | K |
| B-value | $B_{(25/100)}$ | Tol. ±2 % | 25 | | 3437 | | K |
| Vincotech NTC Reference | | | | | | K | |



Inverter Switch Characteristics

figure 1. IGBT

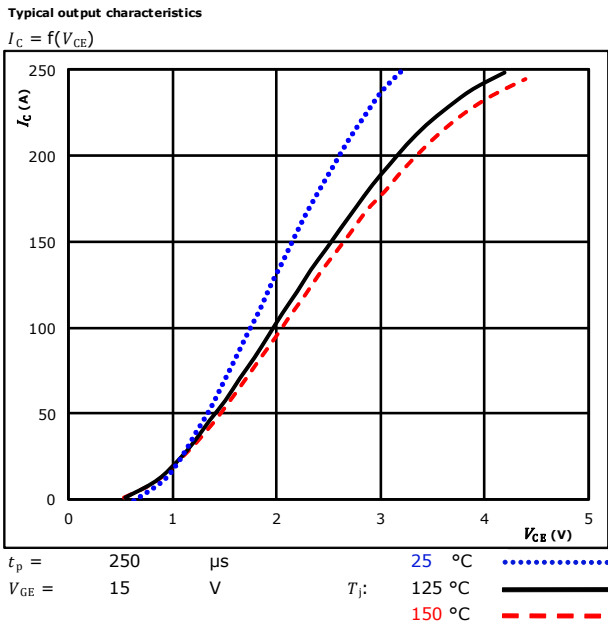


figure 2. IGBT

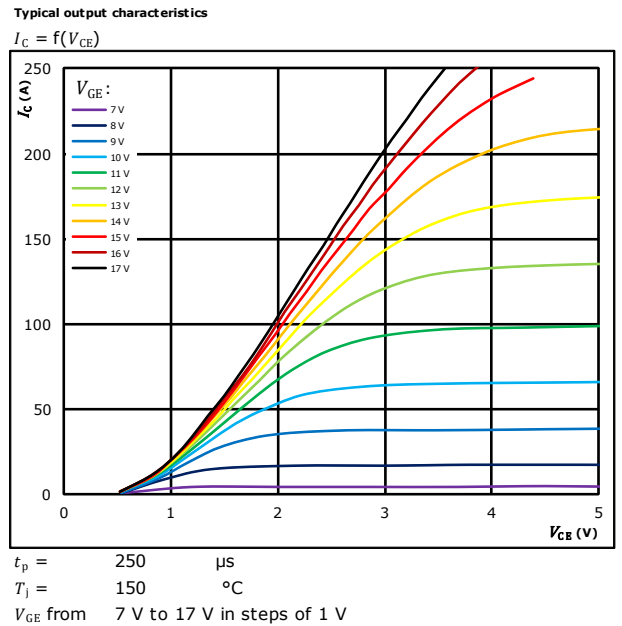


figure 3. IGBT

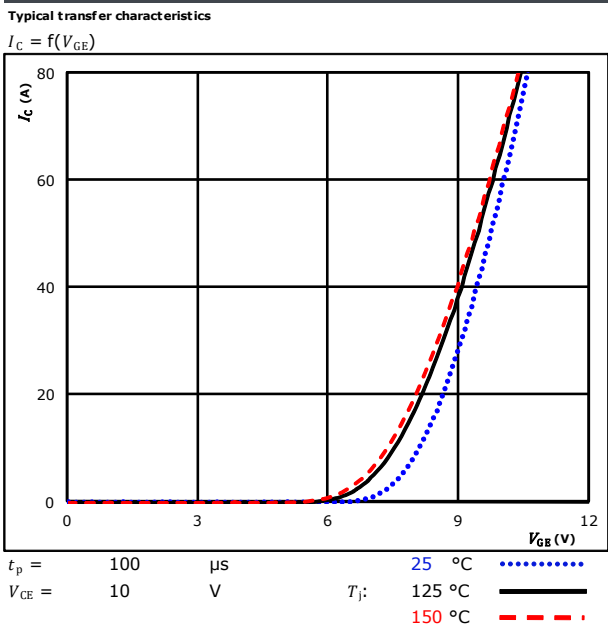
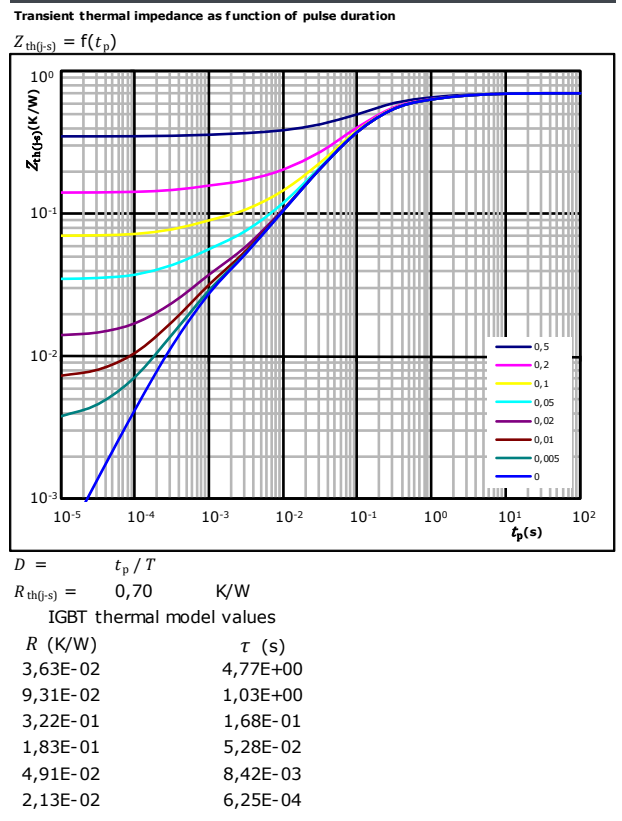


figure 4. IGBT



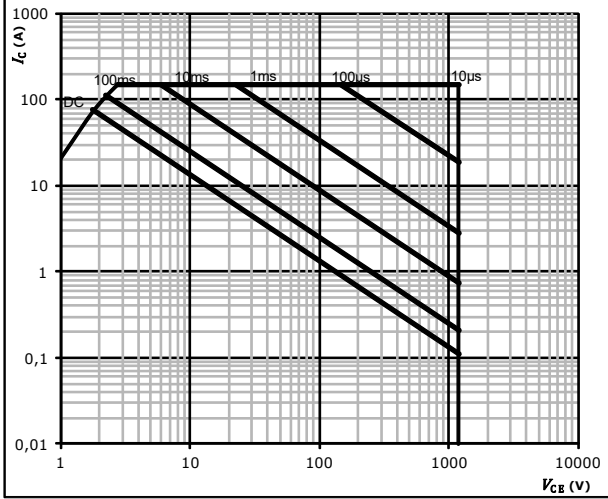


Inverter Switch Characteristics

figure 5. IGBT

Safe operating area

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



- $D =$ single pulse
- $T_s =$ 80 °C
- $V_{GE} =$ ±15 V
- $T_j = T_{jmax}$

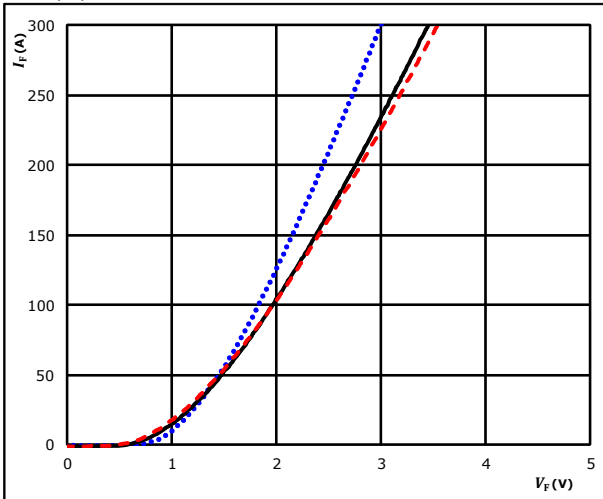


Inverter Diode Characteristics

figure 1. FWD

Typical forward characteristics

$$I_F = f(V_F)$$

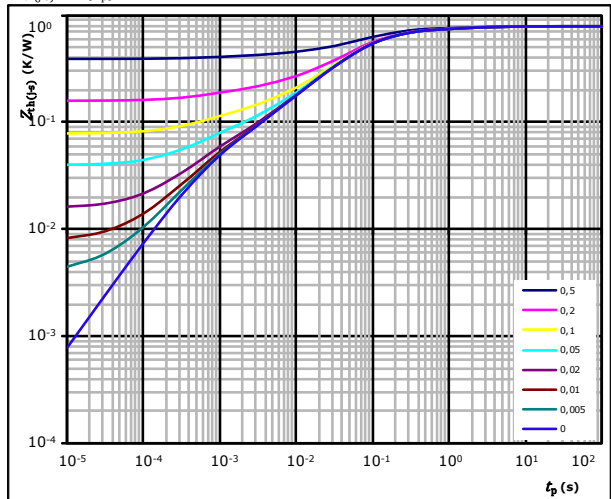


$t_p = 250 \mu s$
 T_j : 25 °C (dotted blue), 125 °C (solid black), 150 °C (dashed red)

figure 2. FWD

Transient thermal impedance as a function of pulse width

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



$D = t_p / T$
 $R_{th(j-s)} = 0,79 \text{ K/W}$
 FWD thermal model values

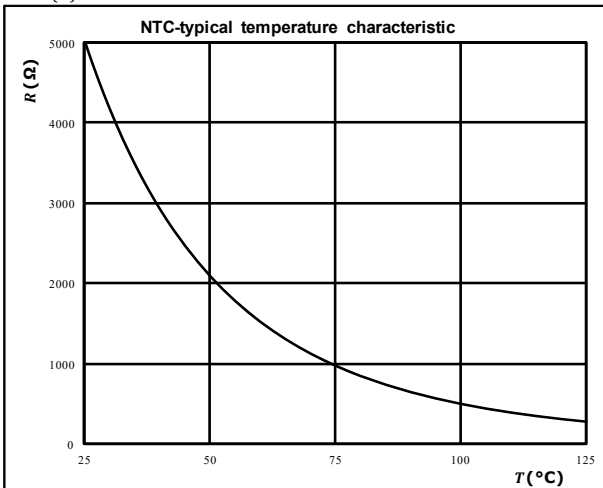
| R (K/W) | τ (s) |
|----------|------------|
| 4,05E-02 | 3,25E+00 |
| 9,02E-02 | 5,38E-01 |
| 3,71E-01 | 8,95E-02 |
| 1,97E-01 | 3,04E-02 |
| 5,23E-02 | 4,59E-03 |
| 3,58E-02 | 6,26E-04 |

Thermistor Characteristics

figure 1. Thermistor

Typical NTC characteristic as a function of temperature

$$R = f(T)$$



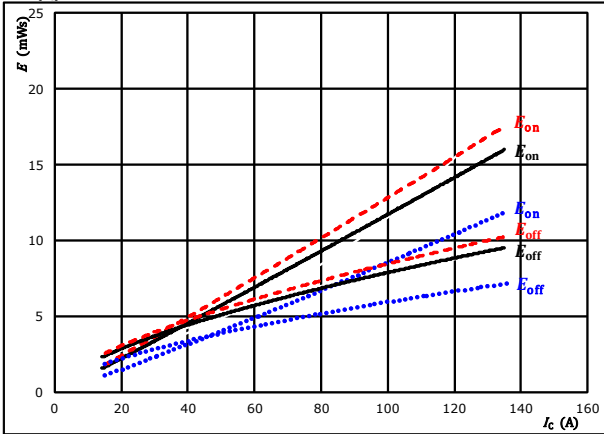


Inverter Switching Characteristics

figure 1. IGBT

Typical switching energy losses as a function of collector current

$$E = f(I_c)$$

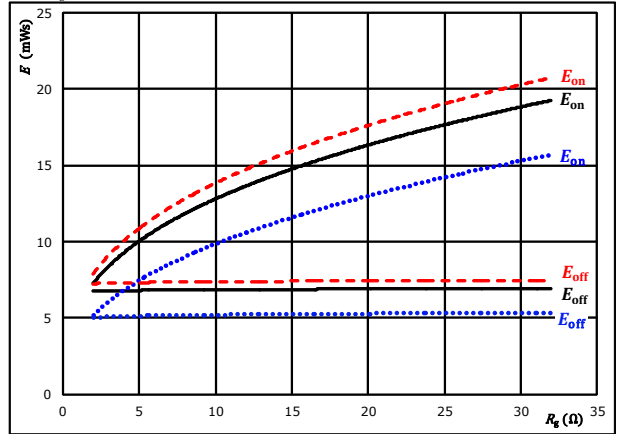


With an inductive load at
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $R_{g\text{on}} = 2$ Ω
 $R_{g\text{off}} = 2$ Ω
 $T_j: 25$ $^{\circ}\text{C}$ (dotted blue)
 125 $^{\circ}\text{C}$ (solid black)
 150 $^{\circ}\text{C}$ (dashed red)

figure 2. IGBT

Typical switching energy losses as a function of gate resistor

$$E = f(R_g)$$

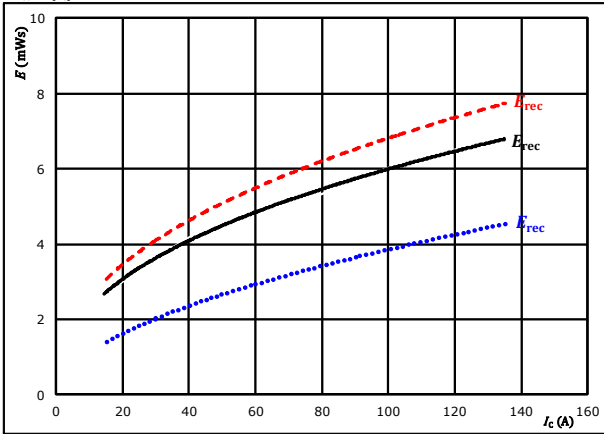


With an inductive load at
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $I_c = 75$ A
 $T_j: 25$ $^{\circ}\text{C}$ (dotted blue)
 125 $^{\circ}\text{C}$ (solid black)
 150 $^{\circ}\text{C}$ (dashed red)

figure 3. FWD

Typical reverse recovered energy loss as a function of collector current

$$E_{\text{rec}} = f(I_c)$$

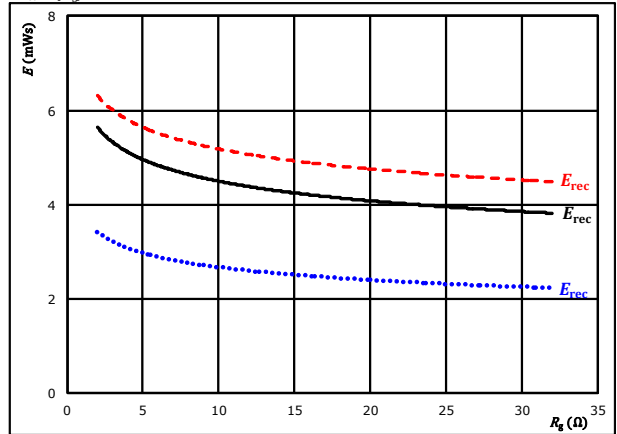


With an inductive load at
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $R_{g\text{on}} = 2$ Ω
 $T_j: 25$ $^{\circ}\text{C}$ (dotted blue)
 125 $^{\circ}\text{C}$ (solid black)
 150 $^{\circ}\text{C}$ (dashed red)

figure 4. FWD

Typical reverse recovered energy loss as a function of gate resistor

$$E_{\text{rec}} = f(R_g)$$



With an inductive load at
 $V_{CE} = 600$ V
 $V_{GE} = \pm 15$ V
 $I_c = 75$ A
 $T_j: 25$ $^{\circ}\text{C}$ (dotted blue)
 125 $^{\circ}\text{C}$ (solid black)
 150 $^{\circ}\text{C}$ (dashed red)

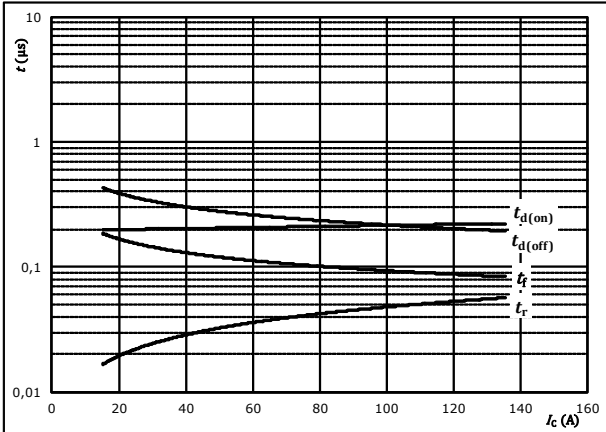


Inverter Switching Characteristics

figure 5. IGBT

Typical switching times as a function of collector current

$t = f(I_C)$



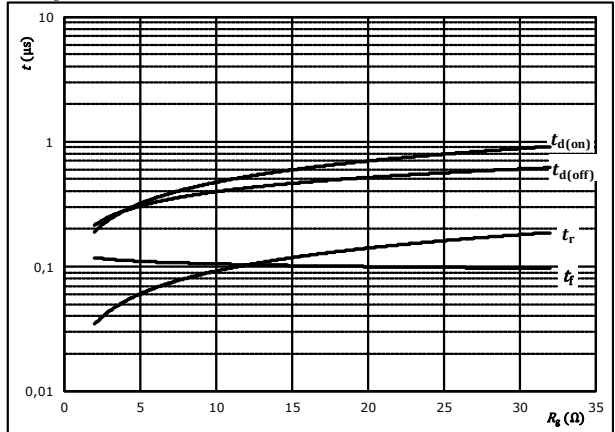
With an inductive load at

| | | |
|----------------|-----|----|
| $T_j =$ | 150 | °C |
| $V_{CE} =$ | 600 | V |
| $V_{GE} =$ | ±15 | V |
| $R_{g(on)} =$ | 2 | Ω |
| $R_{g(off)} =$ | 2 | Ω |

figure 6. IGBT

Typical switching times as a function of gate resistor

$t = f(R_g)$



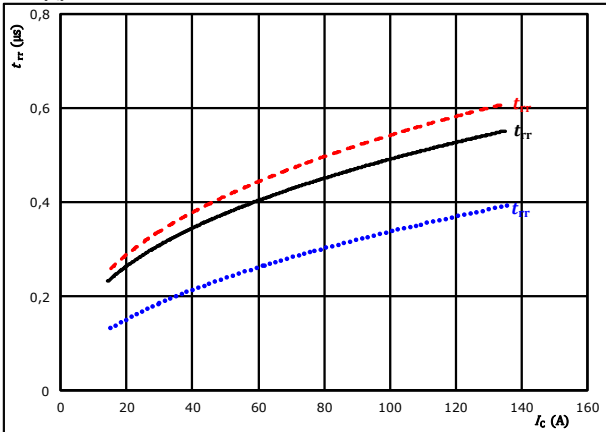
With an inductive load at

| | | |
|------------|-----|----|
| $T_j =$ | 150 | °C |
| $V_{CE} =$ | 600 | V |
| $V_{GE} =$ | ±15 | V |
| $I_C =$ | 75 | A |

figure 7. FWD

Typical reverse recovery time as a function of collector current

$t_{rr} = f(I_C)$

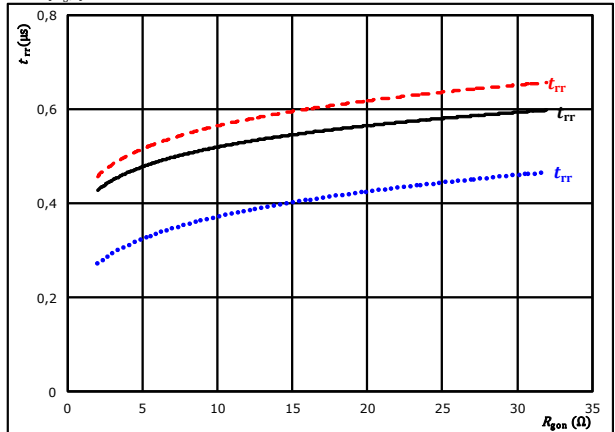


| | | | | | | |
|----|---------------|-----|---|--------|--------|-------|
| At | $V_{CE} =$ | 600 | V | $T_j:$ | 25 °C | |
| | $V_{GE} =$ | ±15 | V | | 125 °C | ———— |
| | $R_{g(on)} =$ | 2 | Ω | | 150 °C | ----- |

figure 8. FWD

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

$t_{rr} = f(R_{g(on)})$



| | | | | | | |
|----|------------|-----|---|--------|--------|-------|
| At | $V_{CE} =$ | 600 | V | $T_j:$ | 25 °C | |
| | $V_{GE} =$ | ±15 | V | | 125 °C | ———— |
| | $I_C =$ | 75 | A | | 150 °C | ----- |

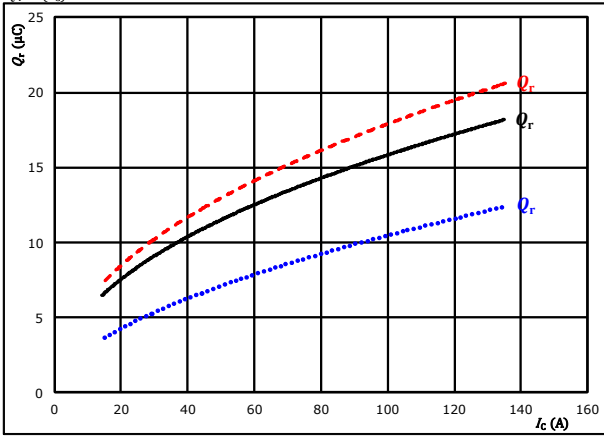


Inverter Switching Characteristics

figure 9. FWD

Typical recovered charge as a function of collector current

$$Q_r = f(I_c)$$

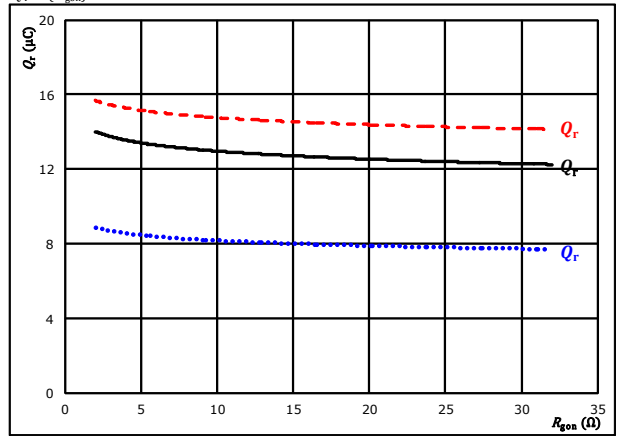


At $V_{CE} = 600$ V $T_j = 25$ °C
 $V_{GE} = \pm 15$ V $T_j = 125$ °C ———
 $R_{gpn} = 2$ Ω $T_j = 150$ °C - - - - -

figure 10. FWD

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

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

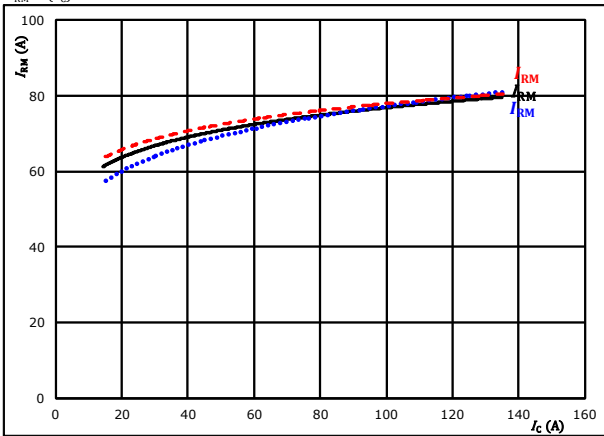


At $V_{CE} = 600$ V $T_j = 25$ °C
 $V_{GE} = \pm 15$ V $T_j = 125$ °C ———
 $I_c = 75$ A $T_j = 150$ °C - - - - -

figure 11. FWD

Typical peak reverse recovery current as a function of collector current

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

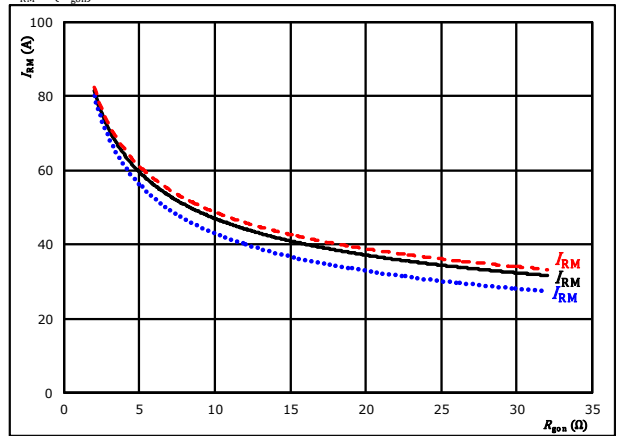


At $V_{CE} = 600$ V $T_j = 25$ °C
 $V_{GE} = \pm 15$ V $T_j = 125$ °C ———
 $R_{gpn} = 2$ Ω $T_j = 150$ °C - - - - -

figure 12. FWD

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

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



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



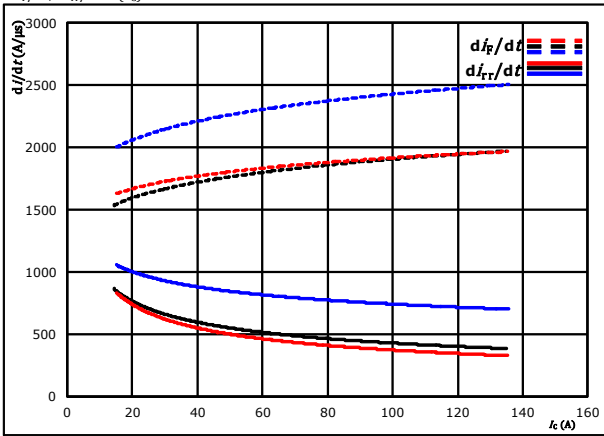
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 datasheet

Inverter Switching Characteristics

figure 13. FWD

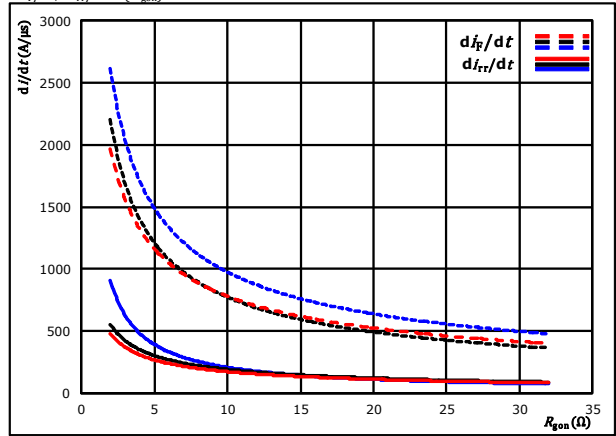
Typical rate of fall of forward and reverse recovery current as a function of collector current
 $di_f/dt, di_{rr}/dt = f(I_c)$



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

figure 14. FWD

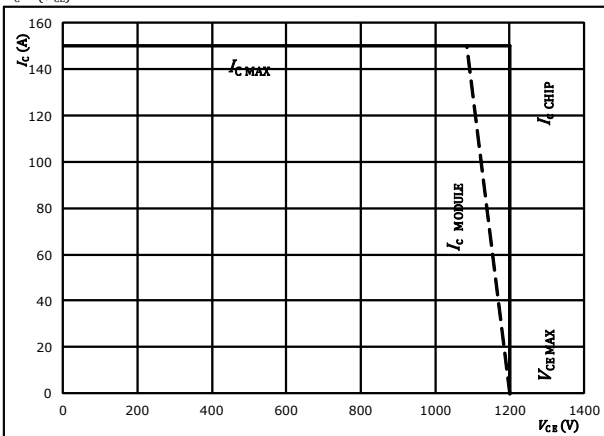
Typical rate of fall of forward and reverse recovery current as a function of IGBT turn on gate resistor
 $di_f/dt, di_{rr}/dt = f(R_{gon})$



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

figure 15. IGBT

Reverse bias safe operating area
 $I_c = f(V_{CB})$



At $T_j = 125$ °C
 $R_{gon} = 2$ Ω
 $R_{goff} = 2$ Ω

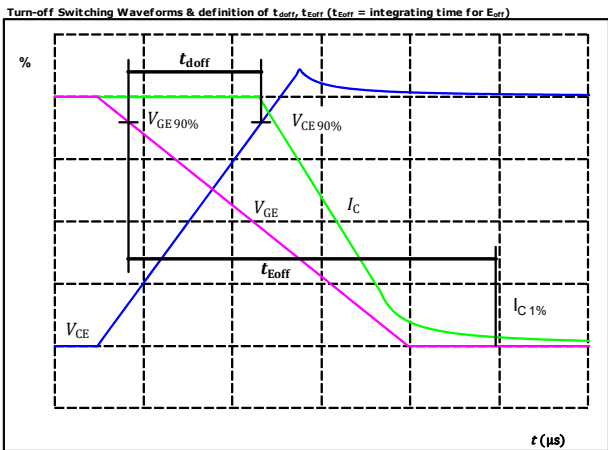


Inverter Switching Definitions

General conditions

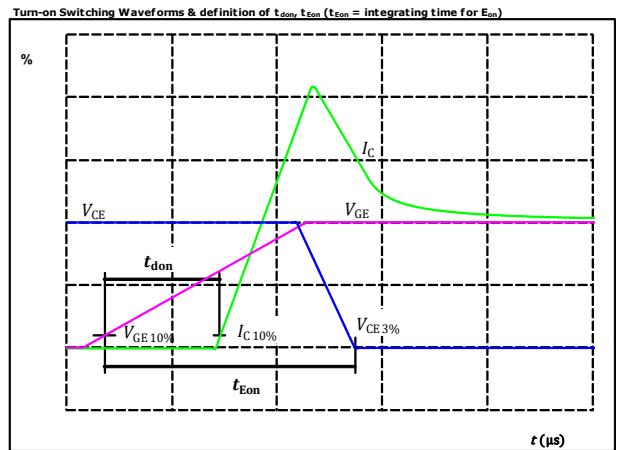
| | | |
|------------|---|------------|
| T_j | = | 125 °C |
| R_{gon} | = | 2 Ω |
| R_{goff} | = | 2 Ω |

figure 1. IGBT



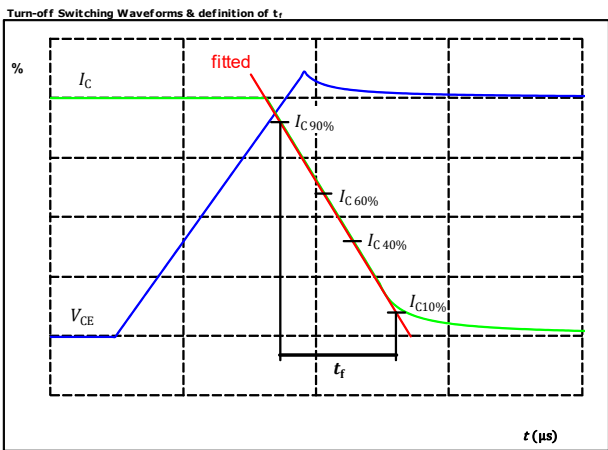
| | | |
|-------------------|-----|----|
| $V_{CE}(0\%) =$ | -15 | V |
| $V_{GE}(100\%) =$ | 15 | V |
| $V_C(100\%) =$ | 600 | V |
| $I_C(100\%) =$ | 75 | A |
| $t_{doff} =$ | 233 | ns |

figure 2. IGBT



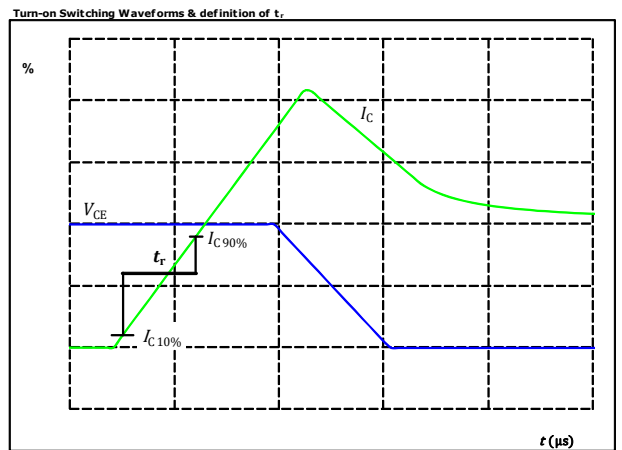
| | | |
|-------------------|-----|----|
| $V_{CE}(0\%) =$ | -15 | V |
| $V_{CE}(100\%) =$ | 15 | V |
| $V_C(100\%) =$ | 600 | V |
| $I_C(100\%) =$ | 75 | A |
| $t_{don} =$ | 208 | ns |

figure 3. IGBT



| | | |
|----------------|-----|----|
| $V_C(100\%) =$ | 600 | V |
| $I_C(100\%) =$ | 75 | A |
| $t_f =$ | 113 | ns |

figure 4. IGBT



| | | |
|----------------|-----|----|
| $V_C(100\%) =$ | 600 | V |
| $I_C(100\%) =$ | 75 | A |
| $t_r =$ | 38 | ns |

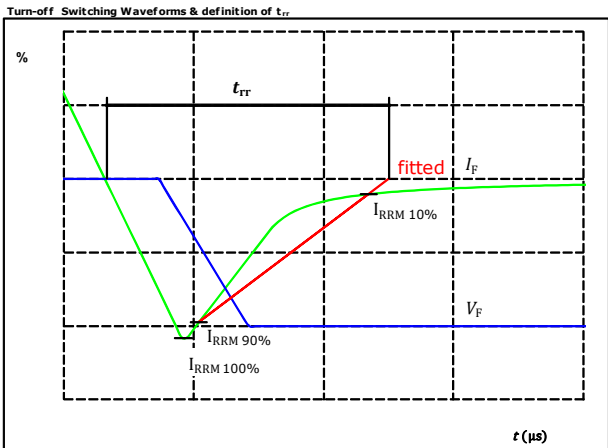


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 datasheet

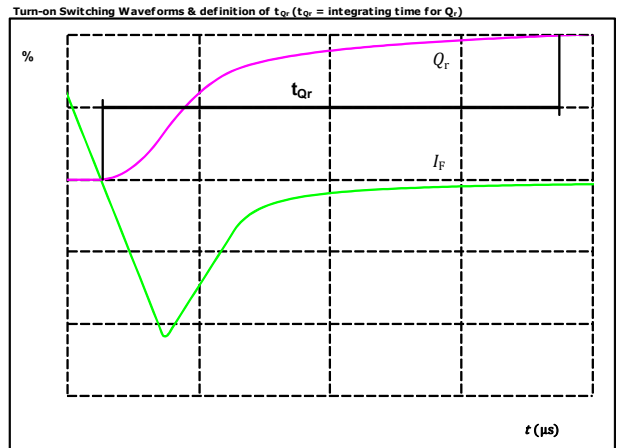
Inverter Switching Characteristics

figure 5. FWD



| | | |
|--------------------|-----|----|
| $V_F(100\%) =$ | 600 | V |
| $I_F(100\%) =$ | 75 | A |
| $I_{RRM}(100\%) =$ | 77 | A |
| $t_{rr} =$ | 432 | ns |

figure 6. FWD



| | | |
|----------------|-------|---------------|
| $I_F(100\%) =$ | 75 | A |
| $Q_r(100\%) =$ | 13,39 | μC |



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| Ordering Code & Marking | | | | | | | | |
|---|--|--|-------------------------------|------------------------|-------------------|---------------------|------------------|---------------|
| Version | | | Ordering Code | | | | | |
| without thermal paste 12 mm housing with Press-fit pins | | | 10-EY126PA075M7-L197F78T | | | | | |
| without thermal paste 12 mm housing with solder pins | | | 10-E2126PA075M7-L197F78Z | | | | | |
| with thermal paste 12 mm housing with Press-fit pins | | | 10-EY126PA075M7-L197F78T-/3/ | | | | | |
| with thermal paste 12 mm housing with solder pins | | | 10-E2126PA075M7-L197F78Z -/3/ | | | | | |
| NN-NNNNNNNNNNNN TTTTWWWWYY UL VIN LLLLL SSSS | | | Text | Name | Date code | UL & VIN | Lot | Serial |
| | | | | NN-NNNNNNNNNNNN-TTTTWW | WWYY | UL VIN | LLLLL | SSSS |
| | | | Datamatrix | Type&Ver | Lot number | Serial | Date code | |
| | | | TTTTTWW | LLLLL | SSSS | WWYY | | |

| Pin table | | | |
|-----------|------|------|----------|
| Pin | X | Y | Function |
| 1 | 32 | 3,2 | G16 |
| 2 | 32 | 0 | Ph3 |
| 3 | 28,8 | 0 | Ph3 |
| 4 | 25,6 | 0 | Ph3 |
| 5 | 19,2 | 0 | Ph2 |
| 6 | 16 | 0 | Ph2 |
| 7 | 12,8 | 0 | Ph2 |
| 8 | 12,8 | 3,2 | G14 |
| 9 | 6,4 | 0 | Ph1 |
| 10 | 3,2 | 0 | Ph1 |
| 11 | 0 | 0 | Ph1 |
| 12 | 0 | 3,2 | G12 |
| 13 | 0 | 19,2 | Therm1 |
| 14 | 0 | 28,8 | Therm2 |
| 15 | 0 | 44,8 | G11 |
| 16 | 0 | 48 | DC-1 |
| 17 | 3,2 | 48 | DC-1 |
| 18 | 6,4 | 48 | DC-1 |
| 19 | 9,6 | 48 | DC-1 |
| 20 | 12,8 | 48 | DC-2 |
| 21 | 12,8 | 44,8 | G13 |
| 22 | 16 | 48 | DC-2 |
| 23 | 19,2 | 48 | DC-2 |
| 24 | 22,4 | 48 | DC-2 |
| 25 | 22,4 | 44,8 | G15 |
| 26 | 25,6 | 48 | DC-3 |
| 27 | 28,8 | 48 | DC-3 |
| 28 | 32 | 48 | DC-3 |
| 29 | 32 | 44,8 | DC-3 |
| 30 | 12,8 | 25,6 | DC+ |
| 31 | 12,8 | 22,4 | DC+ |
| 32 | 12,8 | 19,2 | DC+ |
| 33 | 12,8 | 16 | DC+ |

Outline

center of press-fit pinhead
 for connection parameter see the handling instruction

Press-fit pin

Solder pin

□ 0.64 ±0.03

13.08 ±0.1
16.4 ±0.5

15.9 ±0.1
-0.5

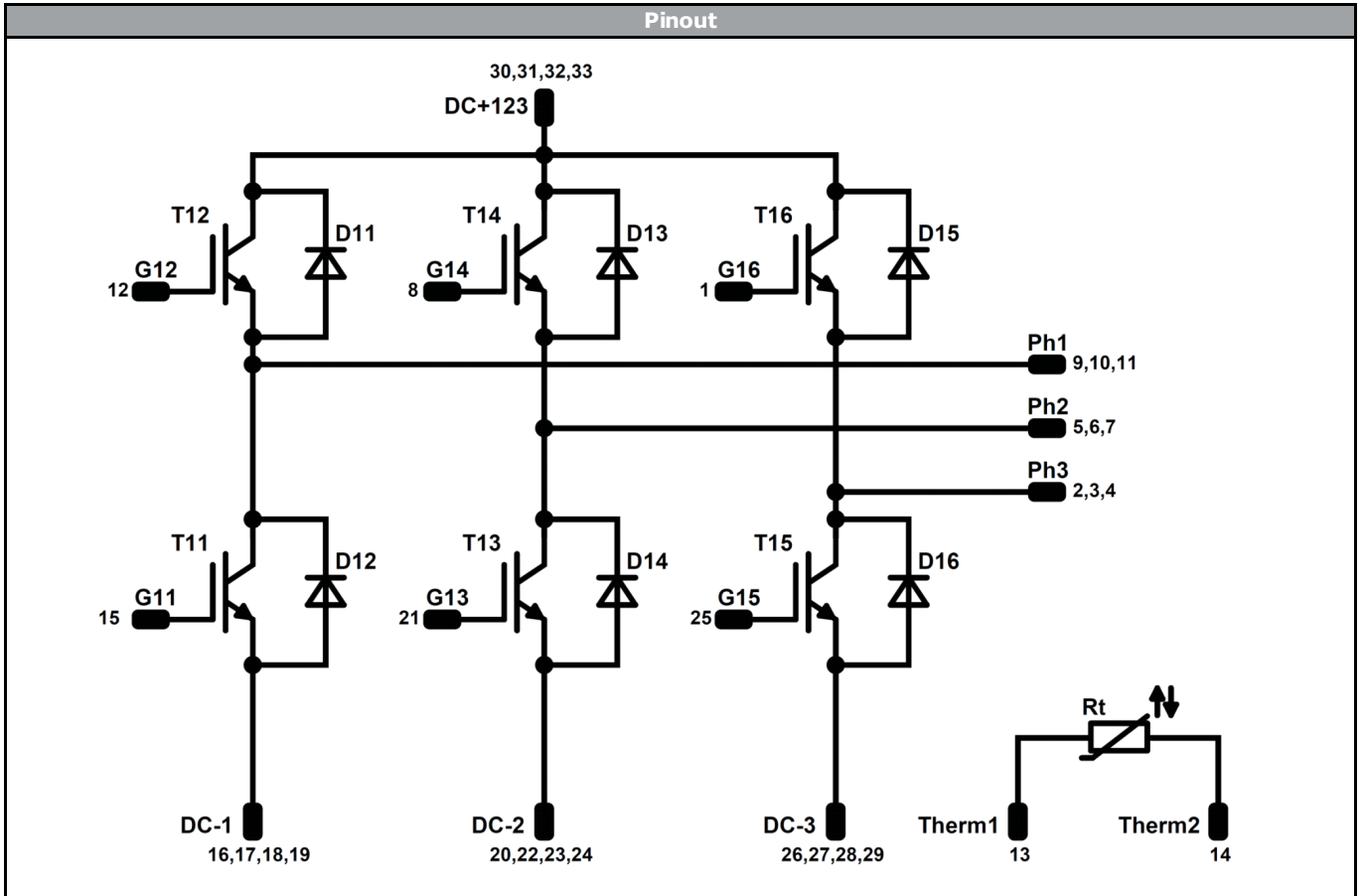
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16

Tolerance of pinpositions ±0.4mm at the end of pins
 Dimension of coordinate axis is only offset without tolerance



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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 | NTC | | | Thermistor | |




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| Packaging instruction | | | |
|---------------------------------------|------|----------|-------------|
| Standard packaging quantity (SPQ) 100 | >SPQ | Standard | <SPQ Sample |

| Handling instruction |
|--|
| Handling instructions for <i>flow</i> E2 packages see vincotech.com website. |

| Package data |
|---|
| Package data for <i>flow</i> E2 packages see vincotech.com website. |

| UL recognition and file number |
|---|
| This device is certified according to UL 1557 standard, UL file number E192116. For more information see vincotech.com website.  |

| Document No.: | Date: | Modification: | Pages |
|--------------------------------|--------------|-----------------|-------|
| 10-Ex126PA075M7-L197F78x-D5-14 | 27 May. 2019 | Outline updated | 14 |

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