

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** FS3L400R10W3S7FB11BPSA1

**Manufacturer:** Infineon Technologies

**Package:** Module

**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/infineon-technologies/fs3l400r10w3s7fb11bpsa1.html>

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## Quality & Trust

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Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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## EasyPACK™ module with TRENCHSTOP™ IGBT7 and CoolSiC™ Schottky diode and PressFIT / NTC

### Features

- Electrical features
  - $V_{CES} = 950\text{ V}$
  - $I_{C\text{ nom}} = 200\text{ A} / I_{CRM} = 300\text{ A}$
  - CoolSiC™ Schottky diode gen 5
  - Low switching losses
  - TRENCHSTOP™ IGBT7
- Mechanical features
  - Integrated NTC temperature sensor
  - $\text{Al}_2\text{O}_3$  substrate with low thermal resistance
  - PressFIT contact technology
  - Compact design



### Potential applications

- Three-level applications
- Solar applications
- UPS systems

### Product validation

- Qualified for industrial applications according to the relevant tests of IEC 60747, 60749 and 60068

### Description

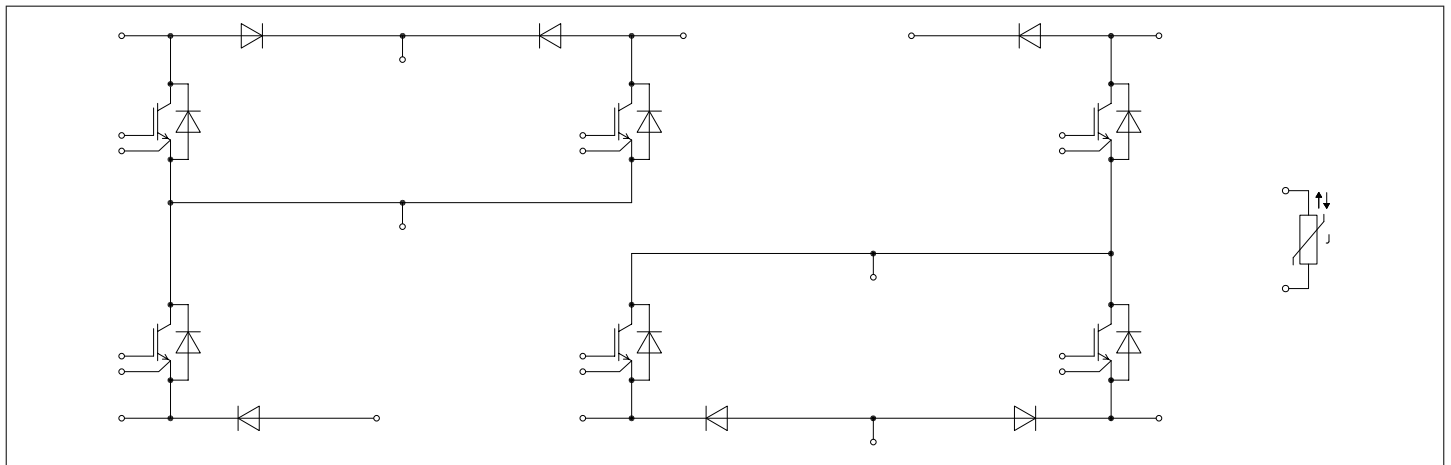


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## 1 Package

**Table 1** Insulation coordination

| Parameter                           | Symbol      | Note or test condition                         | Values    | Unit |
|-------------------------------------|-------------|------------------------------------------------|-----------|------|
| Isolation test voltage              | $V_{ISOL}$  | RMS, $f = 50 \text{ Hz}$ , $t = 1 \text{ min}$ | 3.2       | kV   |
| Internal isolation                  |             | basic insulation (class 1, IEC 61140)          | $Al_2O_3$ |      |
| Creepage distance                   | $d_{Creep}$ | terminal to heatsink                           | 11.2      | mm   |
| Creepage distance                   | $d_{Creep}$ | terminal to terminal                           | 6.8       | mm   |
| Clearance                           | $d_{Clear}$ | terminal to heatsink                           | 9.4       | mm   |
| Clearance                           | $d_{Clear}$ | terminal to terminal                           | 5.5       | mm   |
| Comparative tracking index          | $CTI$       |                                                | > 400     |      |
| Relative thermal index (electrical) | $RTI$       | housing                                        | 140       | °C   |

**Table 2** Characteristic values

| Parameter                           | Symbol    | Note or test condition                         | Values |      |      | Unit |
|-------------------------------------|-----------|------------------------------------------------|--------|------|------|------|
|                                     |           |                                                | Min.   | Typ. | Max. |      |
| Stray inductance module             | $L_{sCE}$ |                                                |        | 18   |      | nH   |
| Storage temperature                 | $T_{stg}$ |                                                | -40    |      | 125  | °C   |
| Mounting torque for module mounting | $M$       | - Mounting according to valid application note | 1.3    |      | 1.5  | Nm   |
| Weight                              | $G$       |                                                |        | 78   |      | g    |

*Note:* The current under continuous operation is limited to 25A rms per connector pin.

## 2 IGBT, Boost

**Table 3** Maximum rated values

| Parameter                         | Symbol    | Note or test condition                                         | Values | Unit |
|-----------------------------------|-----------|----------------------------------------------------------------|--------|------|
| Collector-emitter voltage         | $V_{CES}$ | $T_{vj} = 25 \text{ °C}$                                       | 950    | V    |
| Implemented collector current     | $I_{CN}$  |                                                                | 200    | A    |
| Continuous DC collector current   | $I_{CDC}$ | $T_{vj \text{ max}} = 175 \text{ °C}$<br>$T_H = 65 \text{ °C}$ | 120    | A    |
| Repetitive peak collector current | $I_{CRM}$ | $t_p$ limited by $T_{vj \text{ op}}$                           | 300    | A    |
| Gate-emitter peak voltage         | $V_{GES}$ |                                                                | ±20    | V    |

**Table 4 Characteristic values**

| Parameter                                 | Symbol        | Note or test condition                                                                                                                        |                          | Values |       |       | Unit     |
|-------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|-------|-------|----------|
|                                           |               |                                                                                                                                               |                          | Min.   | Typ.  | Max.  |          |
| Collector-emitter saturation voltage      | $V_{CE\ sat}$ | $I_C = 45\ A, V_{GE} = 15\ V$                                                                                                                 | $T_{vj} = 25\ ^\circ C$  |        | 1.23  | 1.48  | V        |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 1.27  |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 1.27  |       |          |
| Gate threshold voltage                    | $V_{GETh}$    | $I_C = 3.25\ mA, V_{CE} = V_{GE}, T_{vj} = 25\ ^\circ C$                                                                                      |                          | 4.35   | 5.10  | 5.85  | V        |
| Gate charge                               | $Q_G$         | $V_{GE} = \pm 15\ V, V_{CC} = 600\ V$                                                                                                         |                          |        | 0.45  |       | $\mu C$  |
| Internal gate resistor                    | $R_{Gint}$    | $T_{vj} = 25\ ^\circ C$                                                                                                                       |                          |        | 1.5   |       | $\Omega$ |
| Input capacitance                         | $C_{ies}$     | $f = 100\ kHz, T_{vj} = 25\ ^\circ C, V_{CE} = 25\ V, V_{GE} = 0\ V$                                                                          |                          |        | 12.6  |       | nF       |
| Reverse transfer capacitance              | $C_{res}$     | $f = 100\ kHz, T_{vj} = 25\ ^\circ C, V_{CE} = 25\ V, V_{GE} = 0\ V$                                                                          |                          |        | 0.039 |       | nF       |
| Collector-emitter cut-off current         | $I_{CES}$     | $V_{CE} = 950\ V, V_{GE} = 0\ V$                                                                                                              | $T_{vj} = 25\ ^\circ C$  |        |       | 0.026 | mA       |
| Gate-emitter leakage current              | $I_{GES}$     | $V_{CE} = 0\ V, V_{GE} = 20\ V, T_{vj} = 25\ ^\circ C$                                                                                        |                          |        |       | 100   | nA       |
| Turn-on delay time (inductive load)       | $t_{don}$     | $I_C = 45\ A, V_{CC} = 500\ V, V_{GE} = \pm 15\ V, R_{Gon} = 3.9\ \Omega$                                                                     | $T_{vj} = 25\ ^\circ C$  |        | 0.068 |       | $\mu s$  |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 0.078 |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 0.080 |       |          |
| Rise time (inductive load)                | $t_r$         | $I_C = 45\ A, V_{CC} = 500\ V, V_{GE} = \pm 15\ V, R_{Gon} = 3.9\ \Omega$                                                                     | $T_{vj} = 25\ ^\circ C$  |        | 0.007 |       | $\mu s$  |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 0.008 |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 0.009 |       |          |
| Turn-off delay time (inductive load)      | $t_{doff}$    | $I_C = 45\ A, V_{CC} = 500\ V, V_{GE} = \pm 15\ V, R_{Goff} = 1.5\ \Omega$                                                                    | $T_{vj} = 25\ ^\circ C$  |        | 0.198 |       | $\mu s$  |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 0.263 |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 0.280 |       |          |
| Fall time (inductive load)                | $t_f$         | $I_C = 45\ A, V_{CC} = 500\ V, V_{GE} = \pm 15\ V, R_{Goff} = 1.5\ \Omega$                                                                    | $T_{vj} = 25\ ^\circ C$  |        | 0.043 |       | $\mu s$  |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 0.089 |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 0.097 |       |          |
| Turn-on energy loss per pulse             | $E_{on}$      | $I_C = 45\ A, V_{CC} = 500\ V, L_\sigma = 35\ nH, V_{GE} = \pm 15\ V, R_{Gon} = 3.9\ \Omega, di/dt = 4000\ A/\mu s (T_{vj} = 150\ ^\circ C)$  | $T_{vj} = 25\ ^\circ C$  |        | 0.473 |       | mJ       |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 0.544 |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 0.557 |       |          |
| Turn-off energy loss per pulse            | $E_{off}$     | $I_C = 45\ A, V_{CC} = 500\ V, L_\sigma = 35\ nH, V_{GE} = \pm 15\ V, R_{Goff} = 1.5\ \Omega, dv/dt = 3200\ V/\mu s (T_{vj} = 150\ ^\circ C)$ | $T_{vj} = 25\ ^\circ C$  |        | 1.14  |       | mJ       |
|                                           |               |                                                                                                                                               | $T_{vj} = 125\ ^\circ C$ |        | 1.95  |       |          |
|                                           |               |                                                                                                                                               | $T_{vj} = 150\ ^\circ C$ |        | 2.19  |       |          |
| Thermal resistance, junction to heat sink | $R_{thJH}$    | per IGBT, $\lambda_{grease} = 3.3\ W/(m \cdot K)$                                                                                             |                          |        | 0.433 |       | K/W      |

(table continues...)

**Table 4** (continued) Characteristic values

| Parameter                              | Symbol       | Note or test condition | Values |      |      | Unit |
|----------------------------------------|--------------|------------------------|--------|------|------|------|
|                                        |              |                        | Min.   | Typ. | Max. |      |
| Temperature under switching conditions | $T_{vj\ op}$ |                        | -40    |      | 150  | °C   |

### 3 Diode, Reverse

**Table 5** Maximum rated values

| Parameter                       | Symbol    | Note or test condition                   |                                | Values | Unit                 |
|---------------------------------|-----------|------------------------------------------|--------------------------------|--------|----------------------|
| Repetitive peak reverse voltage | $V_{RRM}$ |                                          | $T_{vj} = 25\ ^\circ\text{C}$  | 1200   | V                    |
| Continuous DC forward current   | $I_F$     |                                          |                                | 75     | A                    |
| Repetitive peak forward current | $I_{FRM}$ | $t_P = 1\ \text{ms}$                     |                                | 150    | A                    |
| $I^2t$ - value                  | $I^2t$    | $t_P = 10\ \text{ms}, V_R = 0\ \text{V}$ | $T_{vj} = 125\ ^\circ\text{C}$ | 453    | $\text{A}^2\text{s}$ |
|                                 |           |                                          | $T_{vj} = 175\ ^\circ\text{C}$ | 392    |                      |

**Table 6** Characteristic values

| Parameter                                 | Symbol       | Note or test condition                                                | Values |                                |      | Unit |
|-------------------------------------------|--------------|-----------------------------------------------------------------------|--------|--------------------------------|------|------|
|                                           |              |                                                                       | Min.   | Typ.                           | Max. |      |
| Forward voltage                           | $V_F$        | $I_F = 75\ \text{A}, V_{GE} = 0\ \text{V}$                            |        | $T_{vj} = 25\ ^\circ\text{C}$  | 1.72 | V    |
|                                           |              |                                                                       |        | $T_{vj} = 125\ ^\circ\text{C}$ | 1.59 |      |
|                                           |              |                                                                       |        | $T_{vj} = 175\ ^\circ\text{C}$ | 1.52 |      |
| Thermal resistance, junction to heat sink | $R_{thJH}$   | per diode, $\lambda_{grease} = 3.3\ \text{W}/(\text{m}\cdot\text{K})$ |        | 0.933                          |      | K/W  |
| Temperature under switching conditions    | $T_{vj\ op}$ |                                                                       | -40    |                                | 175  | °C   |

Note:  $T_{vj\ op} > 150\ ^\circ\text{C}$  is allowed for operation at overload conditions. For detailed specifications, please refer to AN 2018-14.

### 4 Diode, Boost

**Table 7** Maximum rated values

| Parameter                       | Symbol    | Note or test condition |                               | Values | Unit |
|---------------------------------|-----------|------------------------|-------------------------------|--------|------|
| Repetitive peak reverse voltage | $V_{RRM}$ |                        | $T_{vj} = 25\ ^\circ\text{C}$ | 1200   | V    |

(table continues...)

**Table 7 (continued) Maximum rated values**

| Parameter                       | Symbol    | Note or test condition                   | Values                    | Unit   |
|---------------------------------|-----------|------------------------------------------|---------------------------|--------|
| Continuous DC forward current   | $I_F$     |                                          | 60                        | A      |
| Repetitive peak forward current | $I_{FRM}$ | $t_P = 1 \text{ ms}$                     | 120                       | A      |
| $I^2t$ - value                  | $I^2t$    | $t_P = 10 \text{ ms}, V_R = 0 \text{ V}$ | $T_{vj} = 125 \text{ °C}$ | $A^2s$ |
|                                 |           |                                          | $T_{vj} = 150 \text{ °C}$ |        |

**Table 8 Characteristic values**

| Parameter                                 | Symbol      | Note or test condition                                                                                                                | Values                    |       |      | Unit          |
|-------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|------|---------------|
|                                           |             |                                                                                                                                       | Min.                      | Typ.  | Max. |               |
| Forward voltage                           | $V_F$       | $I_F = 45 \text{ A}, V_{GE} = 0 \text{ V}$                                                                                            | $T_{vj} = 25 \text{ °C}$  | 1.38  | 1.58 | V             |
|                                           |             |                                                                                                                                       | $T_{vj} = 125 \text{ °C}$ | 1.52  |      |               |
|                                           |             |                                                                                                                                       | $T_{vj} = 150 \text{ °C}$ | 1.60  |      |               |
| Peak reverse recovery current             | $I_{RM}$    | $V_{CC} = 500 \text{ V}, I_F = 45 \text{ A}, V_{GE} = -15 \text{ V}, -di_F/dt = 4000 \text{ A}/\mu\text{s} (T_{vj} = 150 \text{ °C})$ | $T_{vj} = 25 \text{ °C}$  | 46.2  |      | A             |
|                                           |             |                                                                                                                                       | $T_{vj} = 125 \text{ °C}$ | 46.2  |      |               |
|                                           |             |                                                                                                                                       | $T_{vj} = 150 \text{ °C}$ | 46.2  |      |               |
| Recovered charge                          | $Q_r$       | $V_{CC} = 500 \text{ V}, I_F = 45 \text{ A}, V_{GE} = -15 \text{ V}, -di_F/dt = 4000 \text{ A}/\mu\text{s} (T_{vj} = 150 \text{ °C})$ | $T_{vj} = 25 \text{ °C}$  | 1.27  |      | $\mu\text{C}$ |
|                                           |             |                                                                                                                                       | $T_{vj} = 125 \text{ °C}$ | 1.27  |      |               |
|                                           |             |                                                                                                                                       | $T_{vj} = 150 \text{ °C}$ | 1.27  |      |               |
| Reverse recovery energy                   | $E_{rec}$   | $V_{CC} = 500 \text{ V}, I_F = 45 \text{ A}, V_{GE} = -15 \text{ V}, -di_F/dt = 4000 \text{ A}/\mu\text{s} (T_{vj} = 150 \text{ °C})$ | $T_{vj} = 25 \text{ °C}$  | 0.128 |      | mJ            |
|                                           |             |                                                                                                                                       | $T_{vj} = 125 \text{ °C}$ | 0.128 |      |               |
|                                           |             |                                                                                                                                       | $T_{vj} = 150 \text{ °C}$ | 0.128 |      |               |
| Thermal resistance, junction to heat sink | $R_{thJH}$  | per diode, $\lambda_{grease} = 3.3 \text{ W}/(\text{m} \cdot \text{K})$                                                               |                           | 0.689 |      | K/W           |
| Temperature under switching conditions    | $T_{vj op}$ |                                                                                                                                       | -40                       |       | 150  | °C            |

## 5 NTC-Thermistor

**Table 9 Characteristic values**

| Parameter              | Symbol       | Note or test condition                                       | Values |      |      | Unit |
|------------------------|--------------|--------------------------------------------------------------|--------|------|------|------|
|                        |              |                                                              | Min.   | Typ. | Max. |      |
| Rated resistance       | $R_{25}$     | $T_{NTC} = 25 \text{ °C}$                                    |        | 5    |      | kΩ   |
| Deviation of $R_{100}$ | $\Delta R/R$ | $T_{NTC} = 100 \text{ °C}, R_{100} = 493 \text{ Ω}$          | -5     |      | 5    | %    |
| Power dissipation      | $P_{25}$     | $T_{NTC} = 25 \text{ °C}$                                    |        |      | 20   | mW   |
| B-value                | $B_{25/50}$  | $R_2 = R_{25} \exp[B_{25/50}(1/T_2 - 1/(298,15 \text{ K}))]$ |        | 3375 |      | K    |

(table continues...)

**Table 9** (continued) Characteristic values

| Parameter | Symbol       | Note or test condition                                        | Values |      |      | Unit |
|-----------|--------------|---------------------------------------------------------------|--------|------|------|------|
|           |              |                                                               | Min.   | Typ. | Max. |      |
| B-value   | $B_{25/80}$  | $R_2 = R_{25} \exp[B_{25/80}(1/T_2 - 1/(298,15 \text{ K}))]$  |        | 3411 |      | K    |
| B-value   | $B_{25/100}$ | $R_2 = R_{25} \exp[B_{25/100}(1/T_2 - 1/(298,15 \text{ K}))]$ |        | 3433 |      | K    |

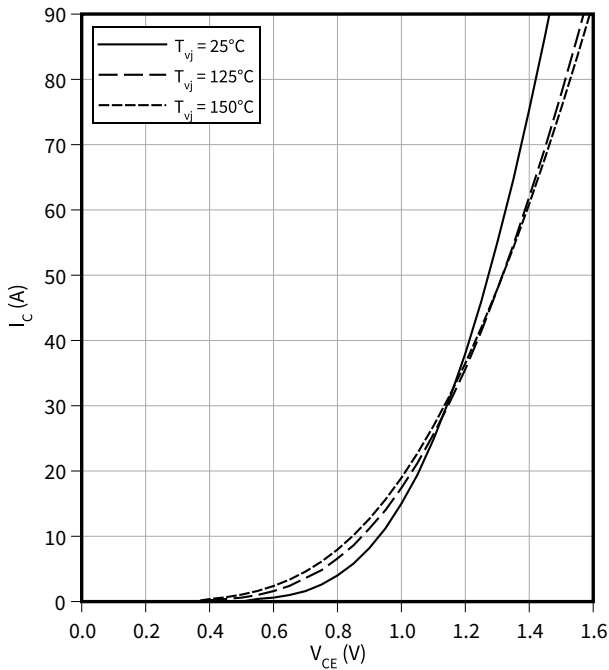
Note: Specification according to the valid application note.

6 Characteristics diagrams

Output characteristic (typical), IGBT, Boost

$I_C = f(V_{CE})$

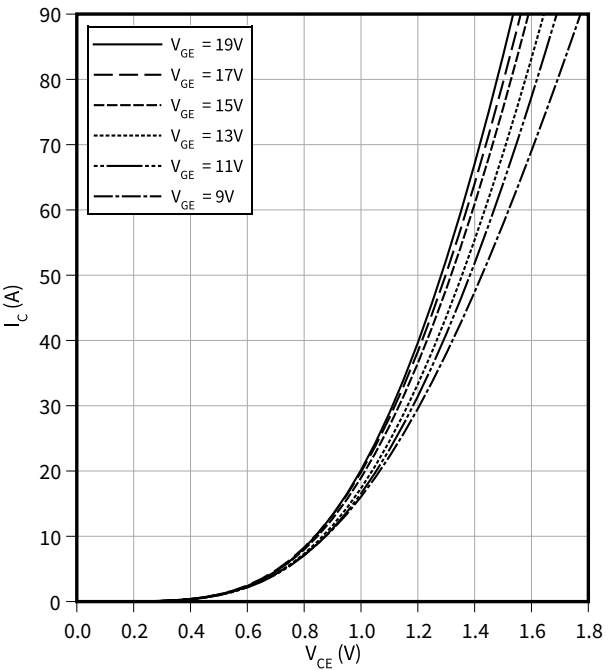
$V_{GE} = 15\text{ V}$



Output characteristic field (typical), IGBT, Boost

$I_C = f(V_{CE})$

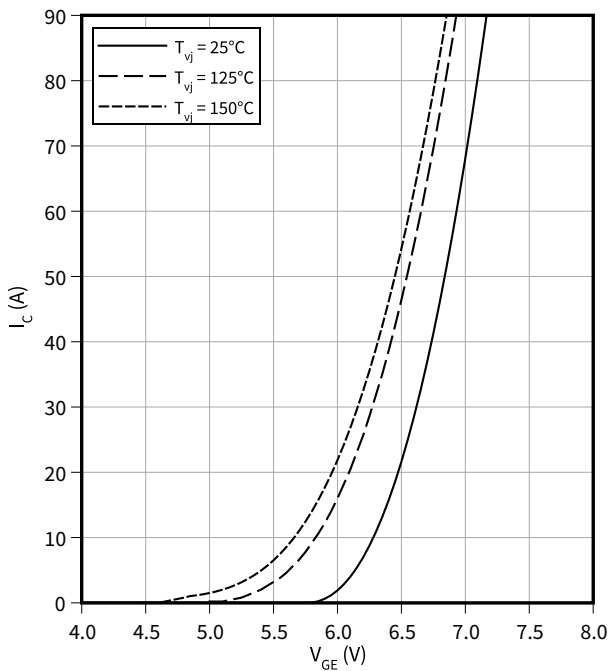
$T_{vj} = 150\text{ °C}$



Transfer characteristic (typical), IGBT, Boost

$I_C = f(V_{GE})$

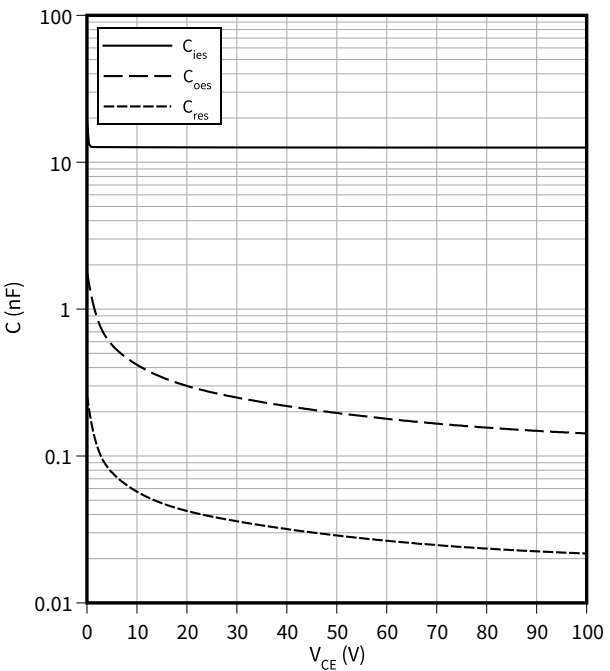
$V_{CE} = 20\text{ V}$



Capacity characteristic (typical), IGBT, Boost

$C = f(V_{CE})$

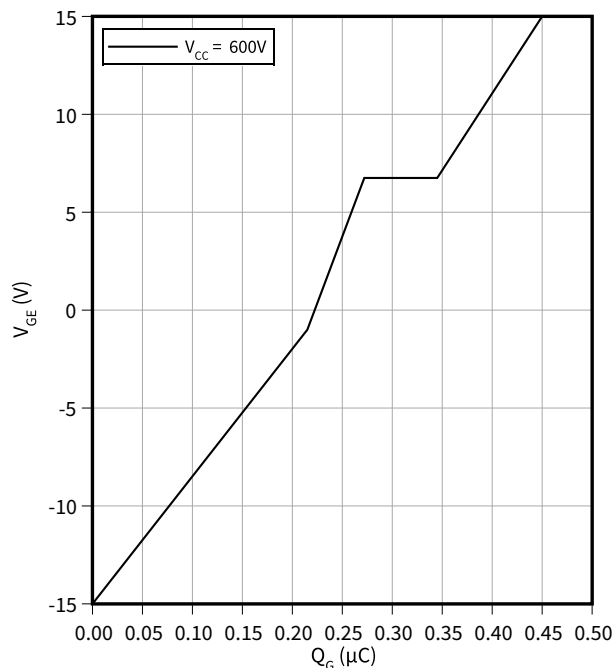
$f = 100\text{ kHz}, V_{GE} = 0\text{ V}, T_{vj} = 25\text{ °C}$



**Gate charge characteristic (typical), IGBT, Boost**

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

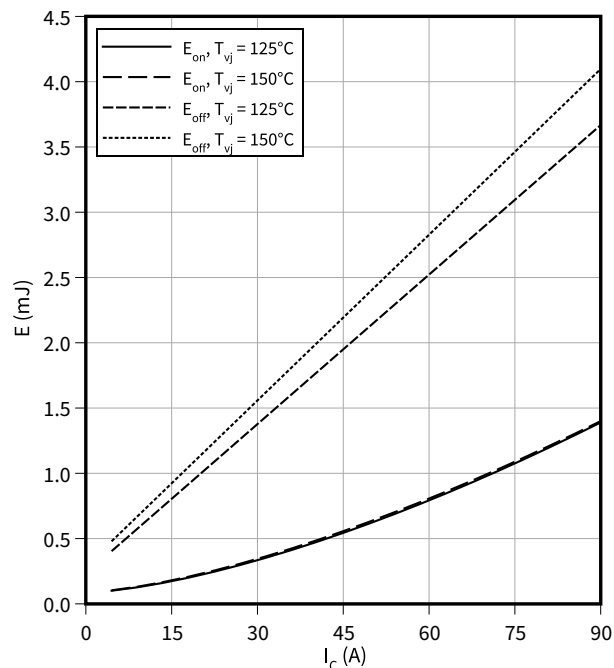
$I_C = 200 \text{ A}$ ,  $T_{vj} = 25^\circ \text{C}$



**Switching losses (typical), IGBT, Boost**

$$E = f(I_C)$$

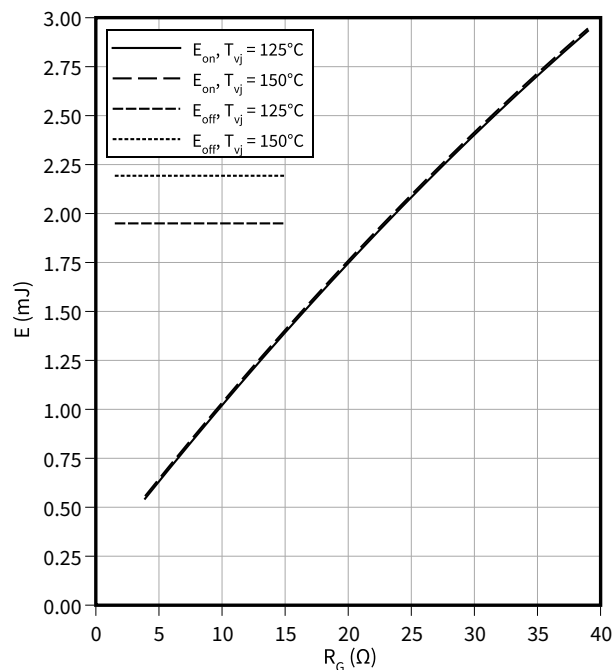
$R_{Goff} = 1.5 \Omega$ ,  $R_{Gon} = 3.9 \Omega$ ,  $V_{CC} = 500 \text{ V}$ ,  $V_{GE} = \pm 15 \text{ V}$



**Switching losses (typical), IGBT, Boost**

$$E = f(R_G)$$

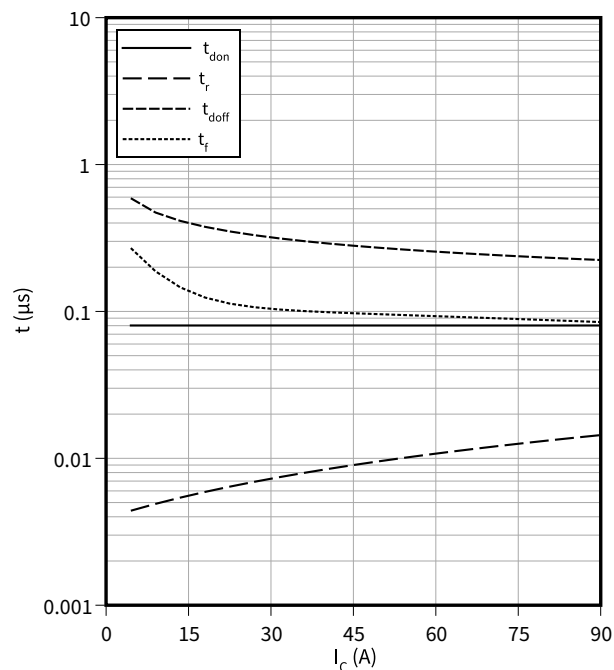
$I_C = 45 \text{ A}$ ,  $V_{CC} = 500 \text{ V}$ ,  $V_{GE} = \pm 15 \text{ V}$



**Switching times (typical), IGBT, Boost**

$$t = f(I_C)$$

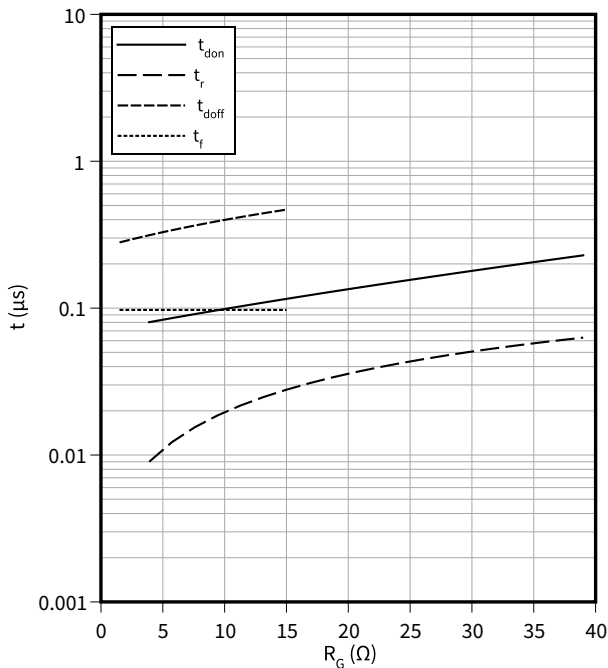
$R_{Goff} = 1.5 \Omega$ ,  $R_{Gon} = 3.9 \Omega$ ,  $V_{CC} = 500 \text{ V}$ ,  $V_{GE} = \pm 15 \text{ V}$ ,  $T_{vj} = 150^\circ\text{C}$



6 Characteristics diagrams

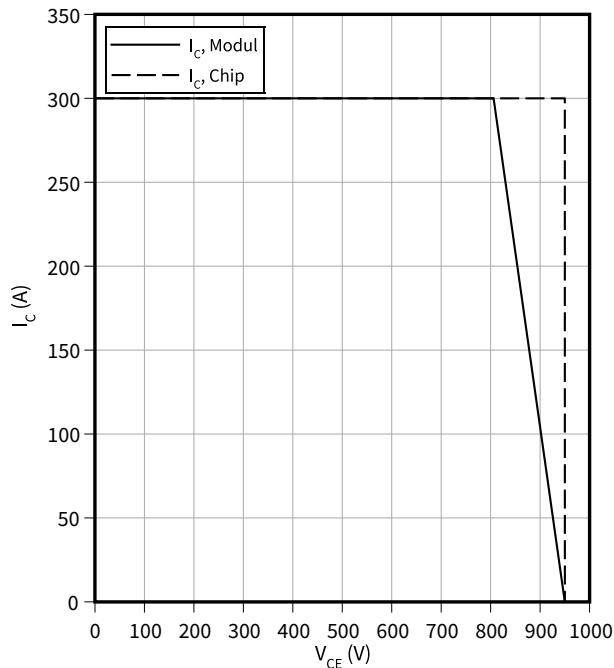
Switching times (typical), IGBT, Boost

$t = f(R_G)$   
 $I_C = 45\text{ A}$ ,  $V_{CC} = 500\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$ ,  $T_{vj} = 150\text{ °C}$



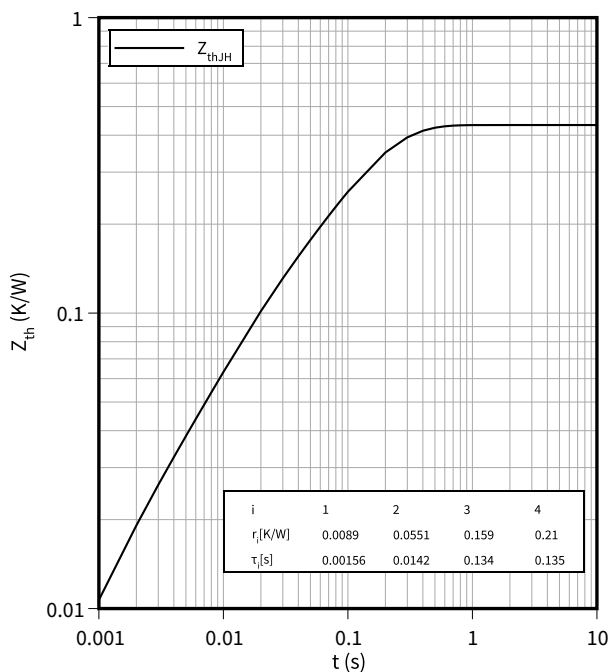
Reverse bias safe operating area (RBSOA), IGBT, Boost

$I_C = f(V_{CE})$   
 $R_{Goff} = 1.5\ \Omega$ ,  $V_{GE} = \pm 15\text{ V}$ ,  $T_{vj} = 150\text{ °C}$



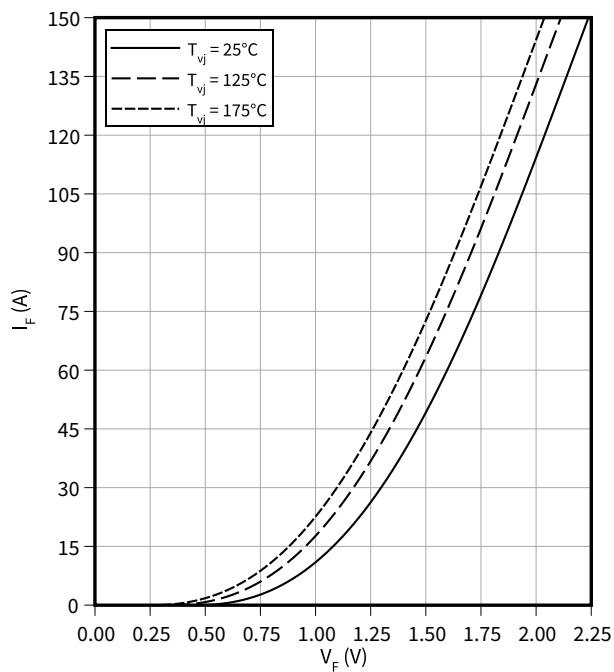
Transient thermal impedance , IGBT, Boost

$Z_{th} = f(t)$



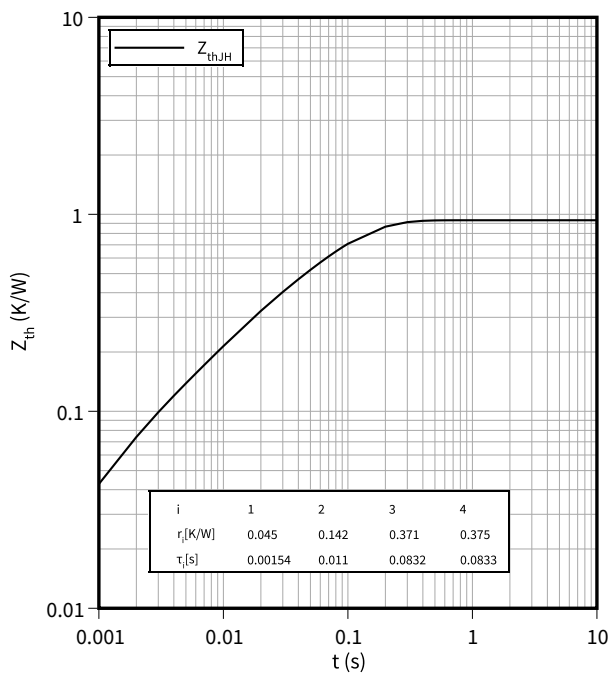
Forward characteristic (typical), Diode, Reverse

$I_F = f(V_F)$



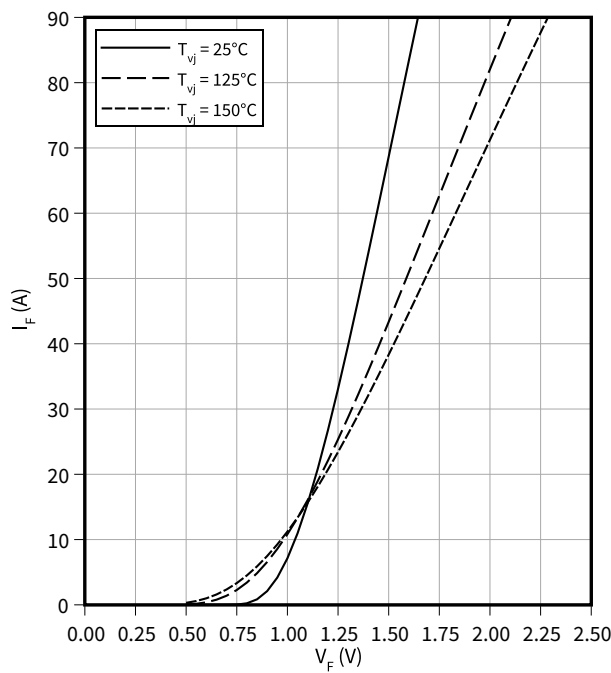
Transient thermal impedance, Diode, Reverse

$Z_{th} = f(t)$



Forward characteristic (typical), Diode, Boost

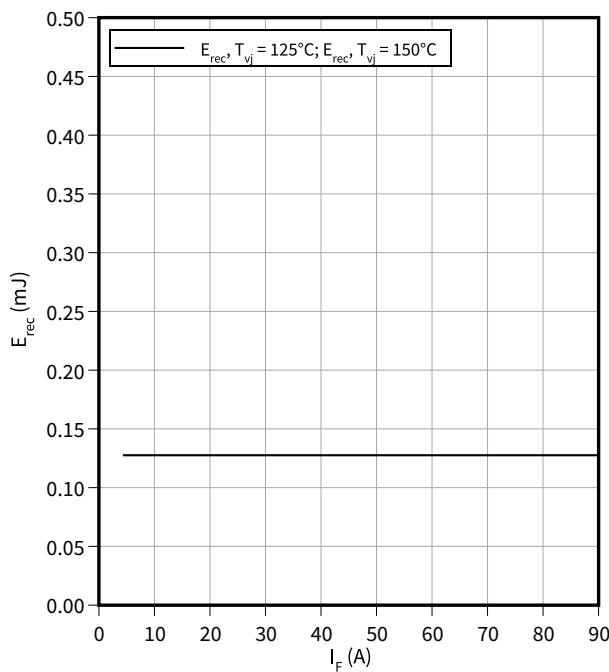
$I_F = f(V_F)$



Switching losses (typical), Diode, Boost

$E_{rec} = f(I_F)$

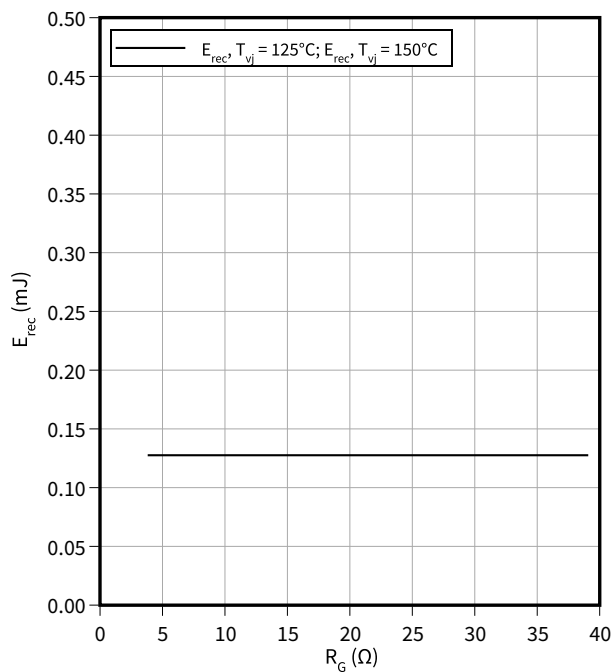
$R_{Gon} = 3.9 \Omega, V_{CC} = 500 V$



Switching losses (typical), Diode, Boost

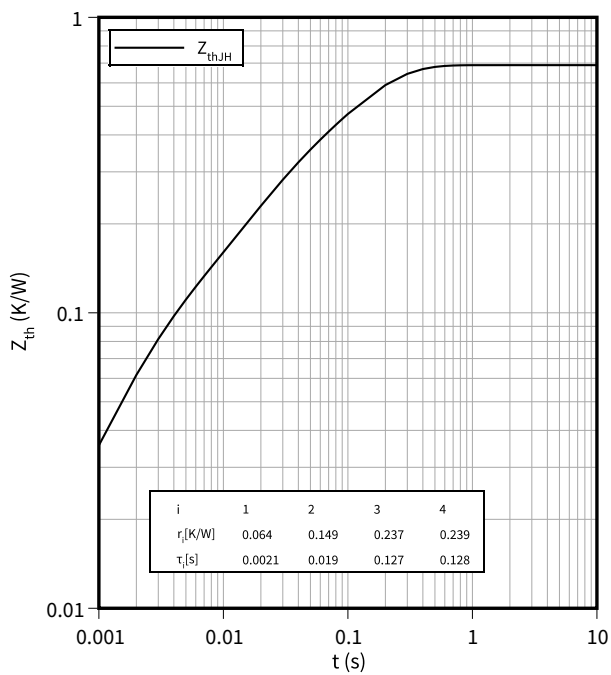
$E_{rec} = f(R_G)$

$I_F = 45 A, V_{CC} = 500 V$



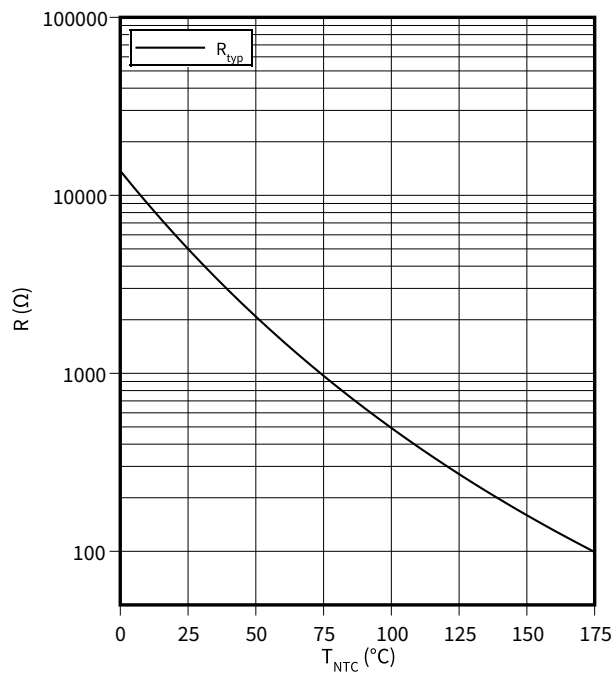
Transient thermal impedance, Diode, Boost

$Z_{th} = f(t)$



Temperature characteristic (typical), NTC-Thermistor

$R = f(T_{NTC})$



## 7 Circuit diagram

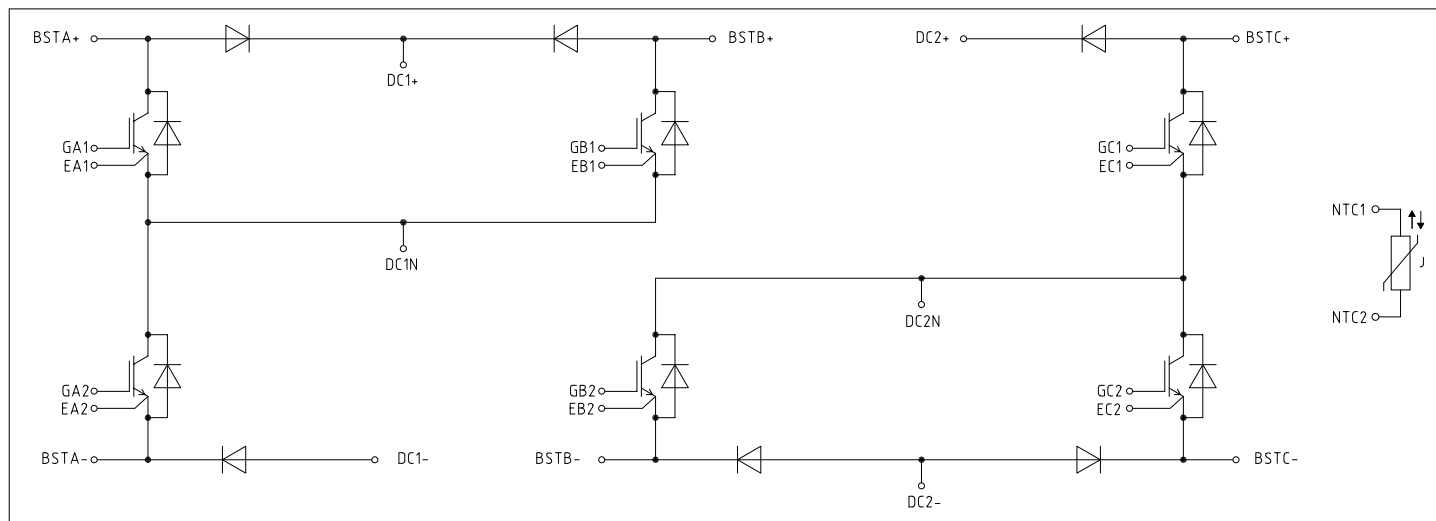


Figure 1

## 8 Package outlines

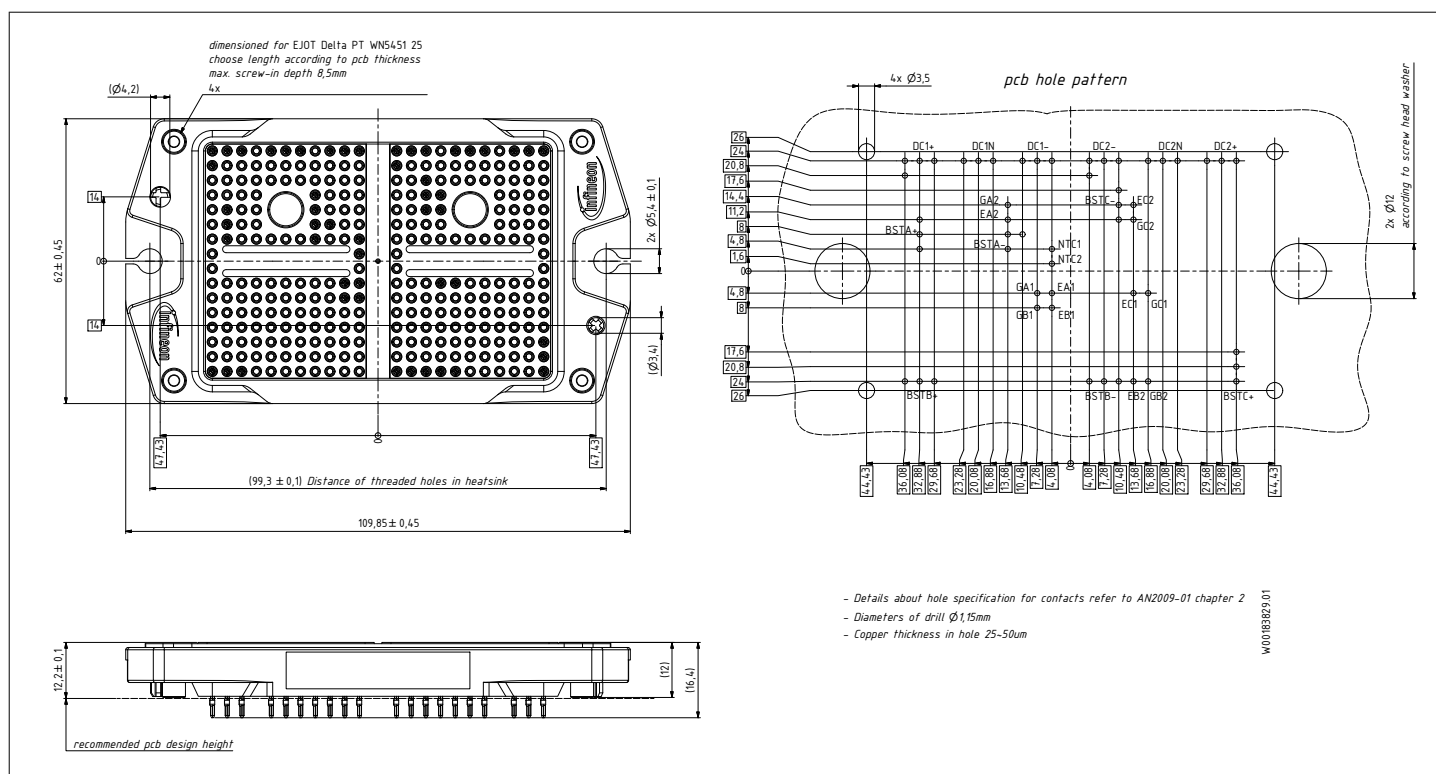


Figure 2

9 Module label code

| Module label code |                                                                                                                                                                                                                                           |              |                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|
| Code format       | Data Matrix                                                                                                                                                                                                                               |              | Barcode Code128 |
| Encoding          | ASCII text                                                                                                                                                                                                                                |              | Code Set A      |
| Symbol size       | 16x16                                                                                                                                                                                                                                     |              | 23 digits       |
| Standard          | IEC24720 and IEC16022                                                                                                                                                                                                                     |              | IEC8859-1       |
| Code content      | <i>Content</i>                                                                                                                                                                                                                            | <i>Digit</i> | <i>Example</i>  |
|                   | Module serial number                                                                                                                                                                                                                      | 1 – 5        | 71549           |
|                   | Module material number                                                                                                                                                                                                                    | 6 - 11       | 142846          |
|                   | Production order number                                                                                                                                                                                                                   | 12 - 19      | 55054991        |
|                   | Date code (production year)                                                                                                                                                                                                               | 20 – 21      | 15              |
|                   | Date code (production week)                                                                                                                                                                                                               | 22 – 23      | 30              |
| Example           | <div><div>7154914284655054991153071549142846550549911530</div></div> |              |                 |

Figure 3

## Revision history

| Document revision | Date of release | Description of changes |
|-------------------|-----------------|------------------------|
| 0.10              | 2022-04-29      | Initial version        |
| 1.00              | 2022-08-24      | Final datasheet        |

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