

**PrimePACK™3+ B-series module with TRENCHSTOP™ IGBT7 and emitter controlled 7 diode and NTC / pre-applied thermal interface material****Features**

- Electrical features
  - $V_{CES} = 1200\text{ V}$
  - $I_{C\text{ nom}} = 2400\text{ A} / I_{CRM} = 4800\text{ A}$
  - High current density
  - Low inductive design
  - Low  $V_{CE,sat}$
  - $T_{vj,op} = 150^{\circ}\text{C}$
  - Overload operation up to  $175^{\circ}\text{C}$
  - TRENCHSTOP™ IGBT7
- Mechanical features
  - High creepage and clearance distances
  - High power density
  - Package with CTI > 400
  - Pre-applied thermal interface material

**Potential applications**

- Three-level applications
- Solar applications
- Energy storage systems

**Product validation**

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

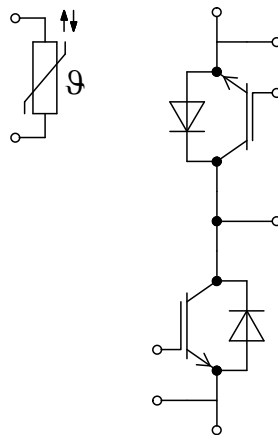
**Description**



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## 1 Package

**Table 1** Insulation coordination

| Parameter                    | Symbol      | Note or test condition | Values | Unit |
|------------------------------|-------------|------------------------|--------|------|
| Isolation test voltage       | $V_{ISOL}$  | RMS, $f = 50$ Hz       | 4.0    | kV   |
| Material of module baseplate |             |                        | Cu     |      |
| Creepage distance            | $d_{Creep}$ | terminal to heatsink   | 36.0   | mm   |
| Creepage distance            | $d_{Creep}$ | terminal to terminal   | 28.0   | mm   |
| Clearance                    | $d_{Clear}$ | terminal to heatsink   | 21.0   | mm   |
| Clearance                    | $d_{Clear}$ | terminal to terminal   | 19.0   | mm   |
| Comparative tracking index   | $CTI$       |                        | >400   |      |

**Table 2** Characteristic values

| Parameter                                | Symbol        | Note or test condition                         | Values    |       |      | Unit |
|------------------------------------------|---------------|------------------------------------------------|-----------|-------|------|------|
|                                          |               |                                                | Min.      | Typ.  | Max. |      |
| Stray inductance module                  | $L_{sCE}$     |                                                |           | 5     |      | nH   |
| Module lead resistance, terminals - chip | $R_{AA'+CC'}$ | $T_H = 25^\circ\text{C}$ , per switch          |           | 0.045 |      | mΩ   |
| Module lead resistance, terminals - chip | $R_{CC'+EE'}$ | $T_H = 25^\circ\text{C}$ , per switch          |           | 0.045 |      | mΩ   |
| Storage temperature                      | $T_{stg}$     |                                                | -40       |       | 150  | °C   |
| Maximum baseplate operation temperature  | $T_{BPmax}$   |                                                |           |       | 150  | °C   |
| Mounting torque for module mounting      | $M$           | - Mounting according to valid application note | M5, Screw | 3     | 6    | Nm   |
| Terminal connection torque               | $M$           | - Mounting according to valid application note | M4, Screw | 1.8   | 2.1  | Nm   |
|                                          |               |                                                | M8, Screw | 8     | 10   |      |
| Weight                                   | $G$           |                                                |           | 1400  |      | g    |

## 2 IGBT, 3-Level

**Table 3** Maximum rated values

| Parameter                       | Symbol    | Note or test condition            |                             | Values | Unit |
|---------------------------------|-----------|-----------------------------------|-----------------------------|--------|------|
| Collector-emitter voltage       | $V_{CES}$ |                                   | $T_{vj} = 25^\circ\text{C}$ | 1200   | V    |
| Implemented collector current   | $I_{CN}$  |                                   |                             | 2400   | A    |
| Continuous DC collector current | $I_{CDC}$ | $T_{vj\ max} = 150^\circ\text{C}$ | $T_H = 30^\circ\text{C}$    | 2400   | A    |

(table continues...)

**Table 3 (continued) Maximum rated values**

| Parameter                         | Symbol    | Note or test condition        | Values   | Unit |
|-----------------------------------|-----------|-------------------------------|----------|------|
| Repetitive peak collector current | $I_{CRM}$ | $t_p$ limited by $T_{vj\ op}$ | 4800     | A    |
| Gate-emitter peak voltage         | $V_{GES}$ |                               | $\pm 20$ | V    |

**Table 4 Characteristic values**

| Parameter                            | Symbol        | Note or test condition                                                                                                                         | Values                   |       |      | Unit     |
|--------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|------|----------|
|                                      |               |                                                                                                                                                | Min.                     | Typ.  | Max. |          |
| Collector-emitter saturation voltage | $V_{CE\ sat}$ | $I_C = 2400\ A, V_{GE} = 15\ V$                                                                                                                | $T_{vj} = 25\ ^\circ C$  | 1.27  | 1.79 | V        |
|                                      |               |                                                                                                                                                | $T_{vj} = 125\ ^\circ C$ | 1.37  | 1.82 |          |
|                                      |               |                                                                                                                                                | $T_{vj} = 150\ ^\circ C$ | 1.40  | 1.84 |          |
| Gate threshold voltage               | $V_{GEth}$    | $I_C = 48\ mA, V_{CE} = V_{GE}, T_{vj} = 25\ ^\circ C$                                                                                         | 5.15                     | 5.80  | 6.45 | V        |
| Gate charge                          | $Q_G$         | $V_{GE} = \pm 15\ V, V_{CE} = 600\ V$                                                                                                          |                          | 38.1  |      | $\mu C$  |
| Internal gate resistor               | $R_{Gint}$    | $T_{vj} = 25\ ^\circ C$                                                                                                                        |                          | 0.23  |      | $\Omega$ |
| Input capacitance                    | $C_{ies}$     | $f = 100\ kHz, T_{vj} = 25\ ^\circ C, V_{CE} = 25\ V, V_{GE} = 0\ V$                                                                           |                          | 325   |      | nF       |
| Reverse transfer capacitance         | $C_{res}$     | $f = 100\ kHz, T_{vj} = 25\ ^\circ C, V_{CE} = 25\ V, V_{GE} = 0\ V$                                                                           |                          | 1.92  |      | nF       |
| Collector-emitter cut-off current    | $I_{CES}$     | $V_{CE} = 1200\ V, V_{GE} = 0\ V$                                                                                                              | $T_{vj} = 25\ ^\circ C$  |       | 5    | mA       |
| Gate-emitter leakage current         | $I_{GES}$     | $V_{CE} = 0\ V, V_{GE} = 20\ V, T_{vj} = 25\ ^\circ C$                                                                                         |                          |       | 400  | nA       |
| Turn-on delay time (inductive load)  | $t_{don}$     | $I_C = 2400\ A, V_{CE} = 600\ V, V_{GE} = \pm 15\ V, R_{Gon} = 0.4\ \Omega$                                                                    | $T_{vj} = 25\ ^\circ C$  | 0.645 |      | $\mu s$  |
|                                      |               |                                                                                                                                                | $T_{vj} = 125\ ^\circ C$ | 0.785 |      |          |
|                                      |               |                                                                                                                                                | $T_{vj} = 150\ ^\circ C$ | 0.820 |      |          |
| Rise time (inductive load)           | $t_r$         | $I_C = 2400\ A, V_{CE} = 600\ V, V_{GE} = \pm 15\ V, R_{Gon} = 0.4\ \Omega$                                                                    | $T_{vj} = 25\ ^\circ C$  | 0.185 |      | $\mu s$  |
|                                      |               |                                                                                                                                                | $T_{vj} = 125\ ^\circ C$ | 0.210 |      |          |
|                                      |               |                                                                                                                                                | $T_{vj} = 150\ ^\circ C$ | 0.215 |      |          |
| Turn-off delay time (inductive load) | $t_{doff}$    | $I_C = 2400\ A, V_{CE} = 600\ V, V_{GE} = \pm 15\ V, R_{Goff} = 3.3\ \Omega$                                                                   | $T_{vj} = 25\ ^\circ C$  | 2.800 |      | $\mu s$  |
|                                      |               |                                                                                                                                                | $T_{vj} = 125\ ^\circ C$ | 2.900 |      |          |
|                                      |               |                                                                                                                                                | $T_{vj} = 150\ ^\circ C$ | 3.000 |      |          |
| Fall time (inductive load)           | $t_f$         | $I_C = 2400\ A, V_{CE} = 600\ V, V_{GE} = \pm 15\ V, R_{Goff} = 3.3\ \Omega$                                                                   | $T_{vj} = 25\ ^\circ C$  | 0.205 |      | $\mu s$  |
|                                      |               |                                                                                                                                                | $T_{vj} = 125\ ^\circ C$ | 0.245 |      |          |
|                                      |               |                                                                                                                                                | $T_{vj} = 150\ ^\circ C$ | 0.275 |      |          |
| Turn-on energy loss per pulse        | $E_{on}$      | $I_C = 2400\ A, V_{CE} = 600\ V, L_\sigma = 50\ nH, V_{GE} = \pm 15\ V, R_{Gon} = 0.4\ \Omega, di/dt = 9000\ A/\mu s (T_{vj} = 150\ ^\circ C)$ | $T_{vj} = 25\ ^\circ C$  | 110   |      | mJ       |
|                                      |               |                                                                                                                                                | $T_{vj} = 125\ ^\circ C$ | 205   |      |          |
|                                      |               |                                                                                                                                                | $T_{vj} = 150\ ^\circ C$ | 240   |      |          |

(table continues...)

**Table 4** (continued) **Characteristic values**

| Parameter                                 | Symbol       | Note or test condition                                                                                                                                                                                                   | Values                               |      |      | Unit             |
|-------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|------|------------------|
|                                           |              |                                                                                                                                                                                                                          | Min.                                 | Typ. | Max. |                  |
| Turn-off energy loss per pulse            | $E_{off}$    | $I_C = 2400\text{ A}$ , $V_{CE} = 600\text{ V}$ ,<br>$L_\sigma = 50\text{ nH}$ , $V_{GE} = \pm 15\text{ V}$ ,<br>$R_{Goff} = 3.3\ \Omega$ , $dv/dt = 1030\text{ V}/\mu\text{s}$ ( $T_{vj} = 150\text{ }^\circ\text{C}$ ) | $T_{vj} = 25\text{ }^\circ\text{C}$  | 715  |      | mJ               |
|                                           |              |                                                                                                                                                                                                                          | $T_{vj} = 125\text{ }^\circ\text{C}$ | 845  |      |                  |
|                                           |              |                                                                                                                                                                                                                          | $T_{vj} = 150\text{ }^\circ\text{C}$ | 890  |      |                  |
| Thermal resistance, junction to heat sink | $R_{thJH}$   | per IGBT, Valid with IFX pre-applied Thermal Interface Material                                                                                                                                                          |                                      |      | 27.6 | K/kW             |
| Temperature under switching conditions    | $T_{vj\ op}$ |                                                                                                                                                                                                                          | -40                                  |      | 150  | $^\circ\text{C}$ |

Note:  $R_{thJH}$  max. value is valid for  $T_C = 110\text{ }^\circ\text{C}$ .

### 3 Diode, 3-Level

**Table 5** **Maximum rated values**

| Parameter                       | Symbol    | Note or test condition              | Values | Unit |
|---------------------------------|-----------|-------------------------------------|--------|------|
| Repetitive peak reverse voltage | $V_{RRM}$ | $T_{vj} = 25\text{ }^\circ\text{C}$ | 1200   | V    |
| Continuous DC forward current   | $I_F$     |                                     | 2400   | A    |
| Repetitive peak forward current | $I_{FRM}$ | $t_P = 1\text{ ms}$                 | 4800   | A    |

**Table 6** **Characteristic values**

| Parameter                     | Symbol   | Note or test condition                                                                                                                                      | Values                               |      |      | Unit          |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|------|---------------|
|                               |          |                                                                                                                                                             | Min.                                 | Typ. | Max. |               |
| Forward voltage               | $V_F$    | $I_F = 2400\text{ A}$ , $V_{GE} = 0\text{ V}$                                                                                                               | $T_{vj} = 25\text{ }^\circ\text{C}$  | 1.70 | 2.03 | V             |
|                               |          |                                                                                                                                                             | $T_{vj} = 125\text{ }^\circ\text{C}$ | 1.65 | 1.96 |               |
|                               |          |                                                                                                                                                             | $T_{vj} = 150\text{ }^\circ\text{C}$ | 1.60 | 1.94 |               |
| Peak reverse recovery current | $I_{RM}$ | $I_F = 2400\text{ A}$ , $V_R = 600\text{ V}$ ,<br>$V_{GE} = -15\text{ V}$ , $-di_F/dt = 6850\text{ A}/\mu\text{s}$ ( $T_{vj} = 150\text{ }^\circ\text{C}$ ) | $T_{vj} = 25\text{ }^\circ\text{C}$  | 735  |      | A             |
|                               |          |                                                                                                                                                             | $T_{vj} = 125\text{ }^\circ\text{C}$ | 885  |      |               |
|                               |          |                                                                                                                                                             | $T_{vj} = 150\text{ }^\circ\text{C}$ | 895  |      |               |
| Recovered charge              | $Q_r$    | $I_F = 2400\text{ A}$ , $V_R = 600\text{ V}$ ,<br>$V_{GE} = -15\text{ V}$ , $-di_F/dt = 6850\text{ A}/\mu\text{s}$ ( $T_{vj} = 150\text{ }^\circ\text{C}$ ) | $T_{vj} = 25\text{ }^\circ\text{C}$  | 210  |      | $\mu\text{C}$ |
|                               |          |                                                                                                                                                             | $T_{vj} = 125\text{ }^\circ\text{C}$ | 410  |      |               |
|                               |          |                                                                                                                                                             | $T_{vj} = 150\text{ }^\circ\text{C}$ | 475  |      |               |

(table continues...)

**Table 6** (continued) Characteristic values

| Parameter                                 | Symbol             | Note or test condition                                                                                                                          | Values |      |      | Unit |
|-------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|------|------|
|                                           |                    |                                                                                                                                                 | Min.   | Typ. | Max. |      |
| Reverse recovery energy                   | $E_{rec}$          | $I_F = 2400\text{ A}$ , $V_R = 600\text{ V}$ ,<br>$V_{GE} = -15\text{ V}$ , $-di_F/dt = 6850\text{ A}/\mu\text{s}$ ( $T_{vj} = 150\text{ °C}$ ) |        | 80   |      | mJ   |
|                                           |                    |                                                                                                                                                 |        | 150  |      |      |
|                                           |                    |                                                                                                                                                 |        | 170  |      |      |
| Thermal resistance, junction to heat sink | $R_{thJH}$         | per diode, Valid with IFX pre-applied Thermal Interface Material                                                                                |        |      | 46.4 | K/kW |
| Temperature under switching conditions    | $T_{vj\text{ op}}$ |                                                                                                                                                 | -40    |      | 150  | °C   |

**Note:** Dynamic data for 3-level valid in conjunction with datasheet FF1800R23IE7, version 1.0.  
 $T_{vj\text{ op}}$  up to 175 °C is allowed for operations in overload conditions. For detailed specifications please refer to AN2021-11.  
 $R_{thJH}$  max. value is valid for  $T_C = 95\text{ °C}$ .

## 4 NTC-Thermistor

**Table 7** 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    |
| 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    |

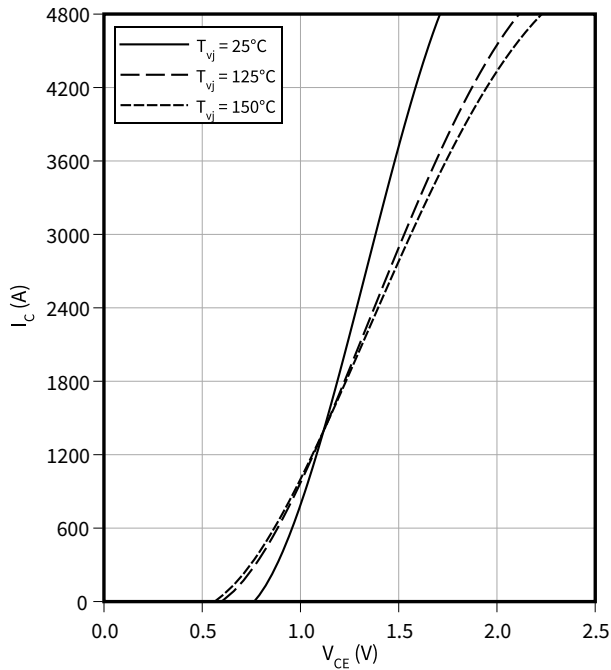
**Note:** For detailed specifications please refer to AN2009-10.

5 Characteristics diagrams

Output characteristic (typical), IGBT, 3-Level

$I_C = f(V_{CE})$

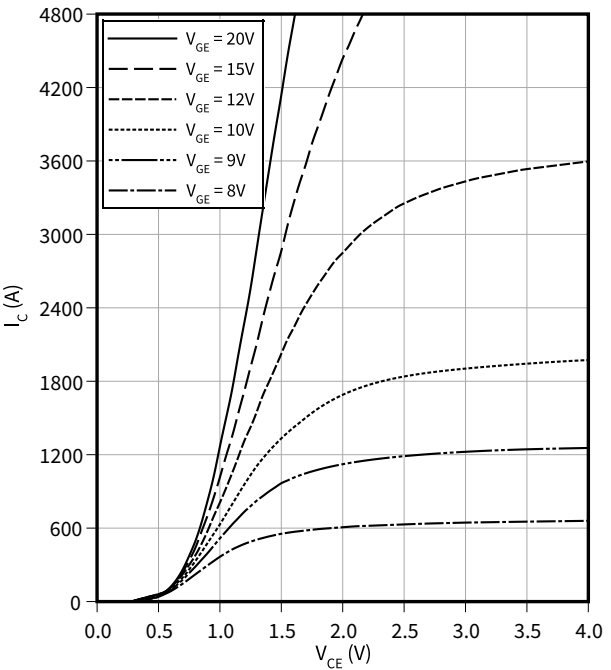
$V_{GE} = 15\text{ V}$



Output characteristic field (typical), IGBT, 3-Level

$I_C = f(V_{CE})$

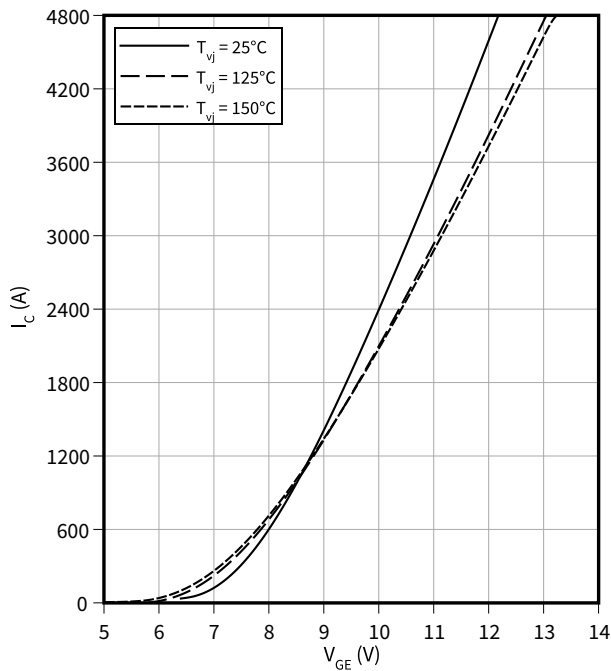
$T_{vj} = 150\text{ °C}$



Transfer characteristic (typical), IGBT, 3-Level

$I_C = f(V_{GE})$

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

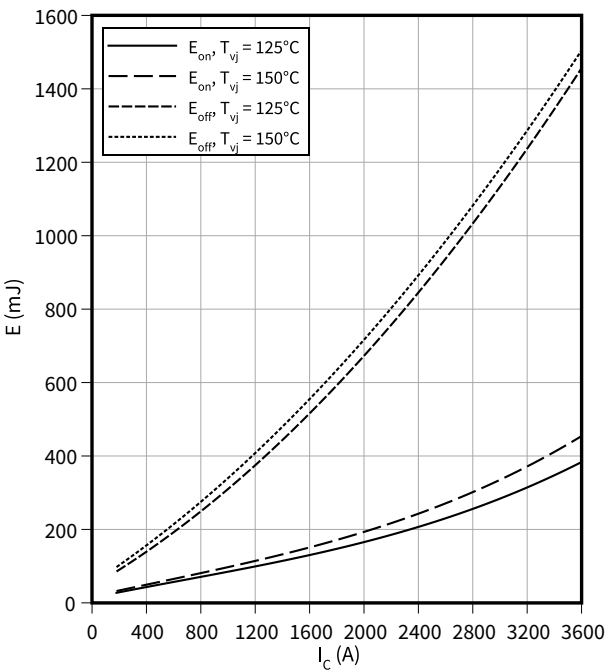


Switching losses (typical), IGBT, 3-Level

$E = f(I_C)$

$R_{Goff} = 3.3\text{ }\Omega$ ,  $R_{Gon} = 0.4\text{ }\Omega$ ,  $V_{CE} = 600\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$

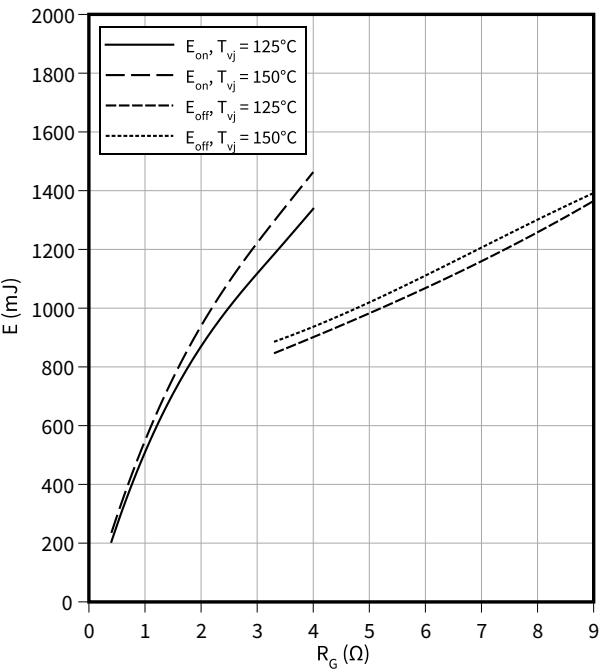
$I_C$  is limited to 3600A by FF1800R23IE7 module.



5 Characteristics diagrams

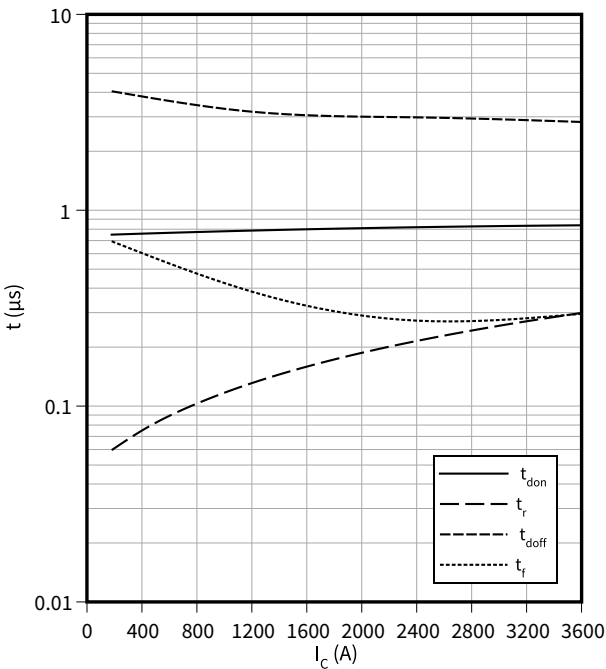
Switching losses (typical), IGBT, 3-Level

$E = f(R_G)$   
 $I_C = 2400\text{ A}$ ,  $V_{CE} = 600\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$



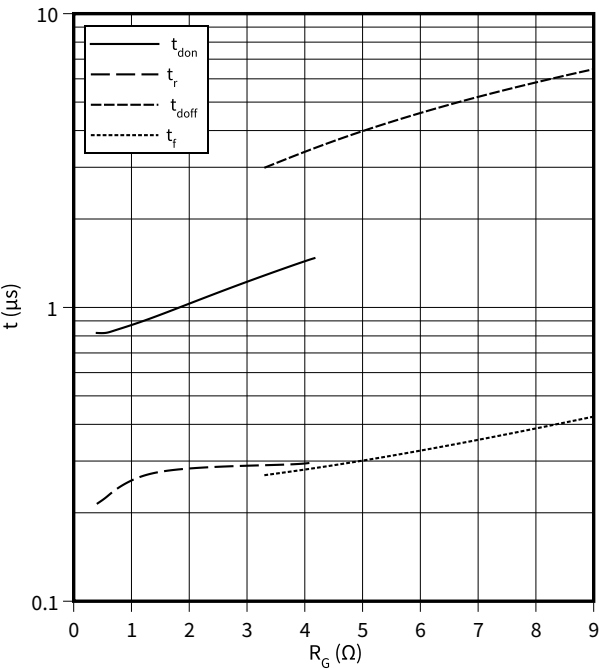
Switching times (typical), IGBT, 3-Level

$t = f(I_C)$   
 $R_{Goff} = 3.3\text{ }\Omega$ ,  $R_{Gon} = 0.4\text{ }\Omega$ ,  $V_{CE} = 600\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$ ,  $T_{vj} = 150\text{ }^\circ\text{C}$



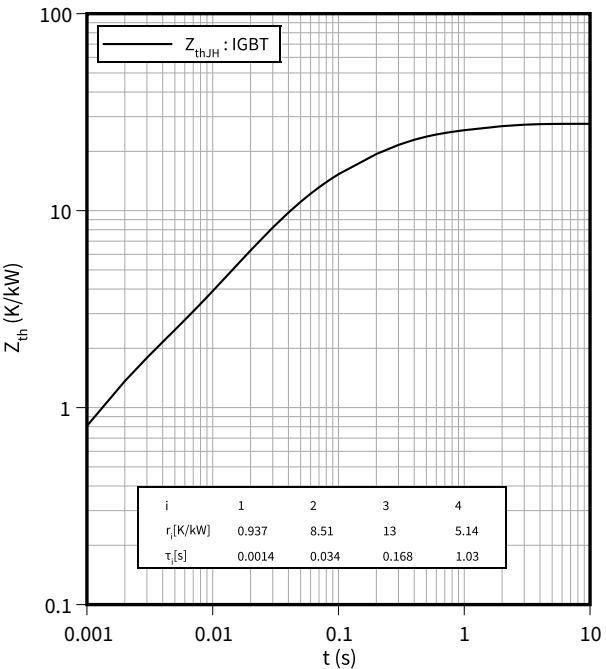
Switching times (typical), IGBT, 3-Level

$t = f(R_G)$   
 $I_C = 2400\text{ A}$ ,  $V_{CE} = 600\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$ ,  $T_{vj} = 150\text{ }^\circ\text{C}$



Transient thermal impedance , IGBT, 3-Level

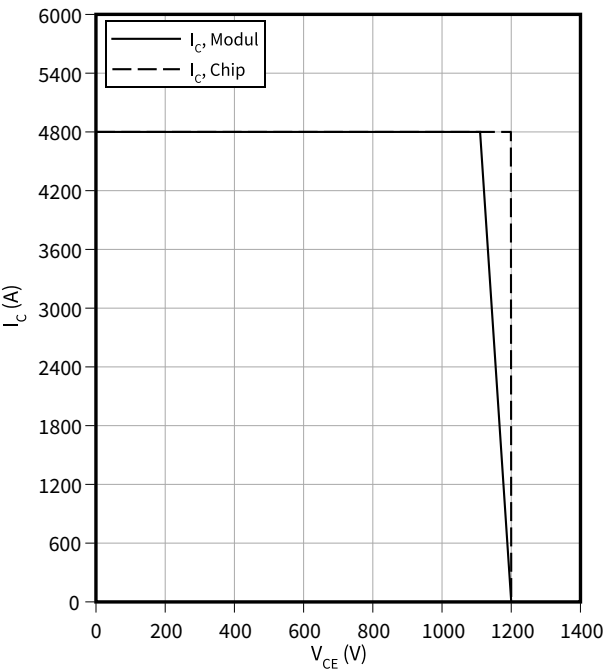
$Z_{th} = f(t)$



5 Characteristics diagrams

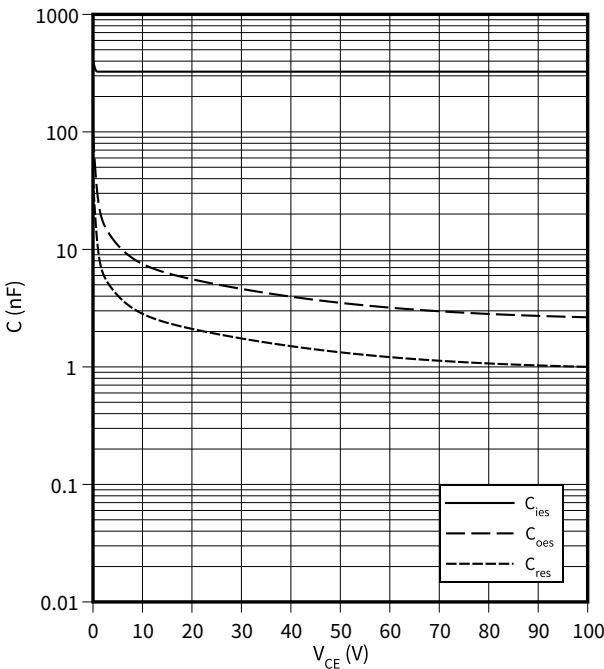
Reverse bias safe operating area (RBSOA), IGBT, 3-Level

$I_C = f(V_{CE})$   
 $R_{Goff} = 3.3 \Omega$ ,  $V_{GE} = 15 \text{ V}$ ,  $T_{vj} = 150 \text{ }^\circ\text{C}$



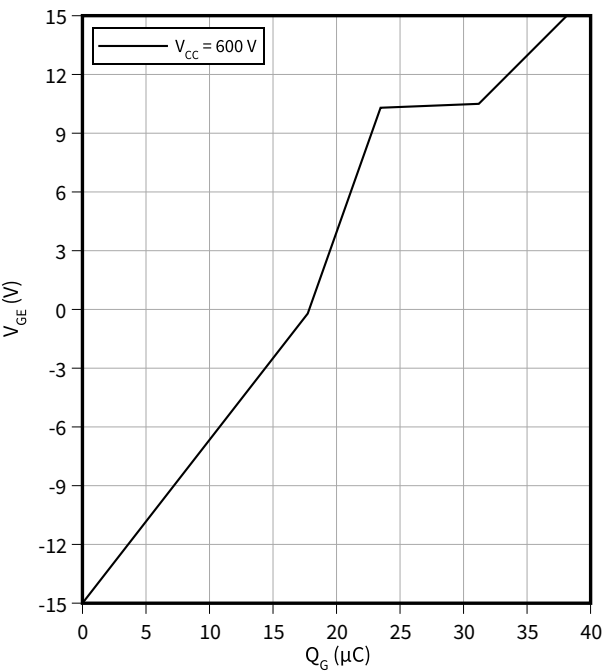
Capacity characteristic (typical), IGBT, 3-Level

$C = f(V_{CE})$   
 $f = 100 \text{ kHz}$ ,  $V_{GE} = 0 \text{ V}$ ,  $T_{vj} = 25 \text{ }^\circ\text{C}$



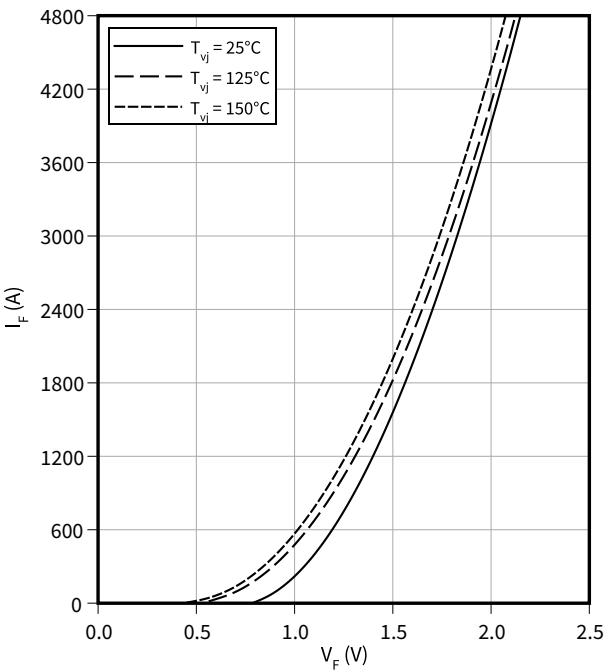
Gate charge characteristic (typical), IGBT, 3-Level

$V_{GE} = f(Q_G)$   
 $I_C = 2400 \text{ A}$ ,  $T_{vj} = 25 \text{ }^\circ\text{C}$



Forward characteristic (typical), Diode, 3-Level

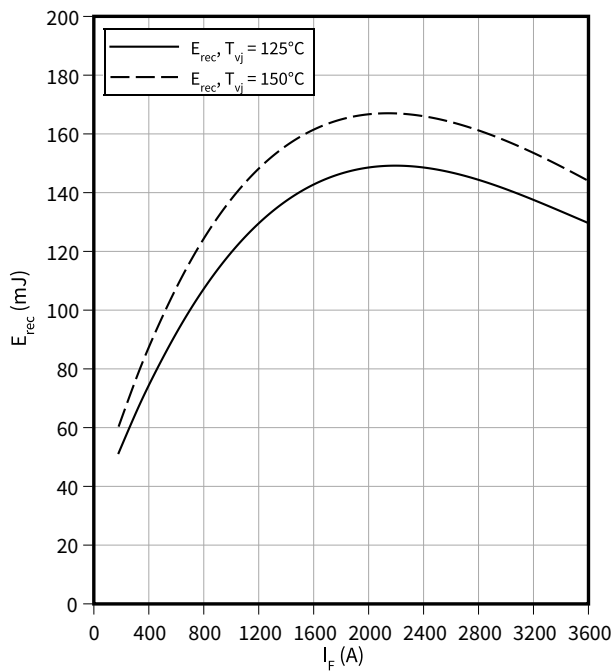
$I_F = f(V_F)$



5 Characteristics diagrams

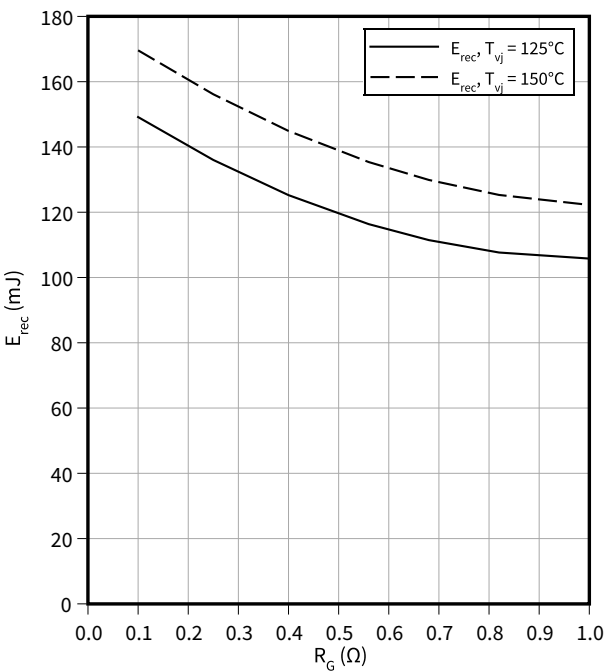
Switching losses (typical), Diode, 3-Level

$E_{rec} = f(I_F)$   
 $V_{CE} = 600\text{ V}, R_{Gon} = R_{Gon}(IGBT)$



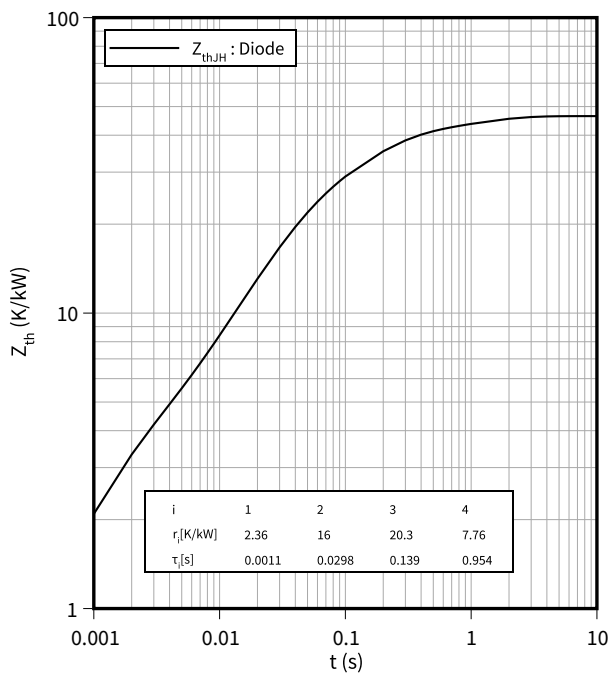
Switching losses (typical), Diode, 3-Level

$E_{rec} = f(R_G)$   
 $V_{CE} = 600\text{ V}, I_F = 2400\text{ A}$



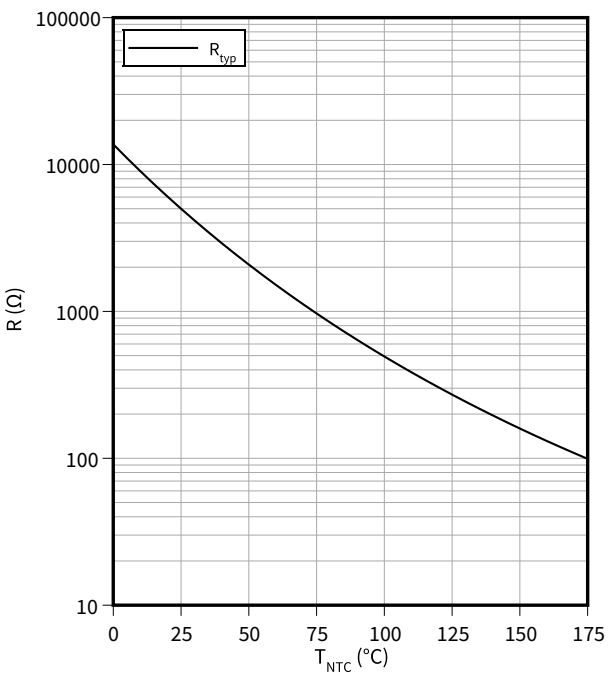
Transient thermal impedance, Diode, 3-Level

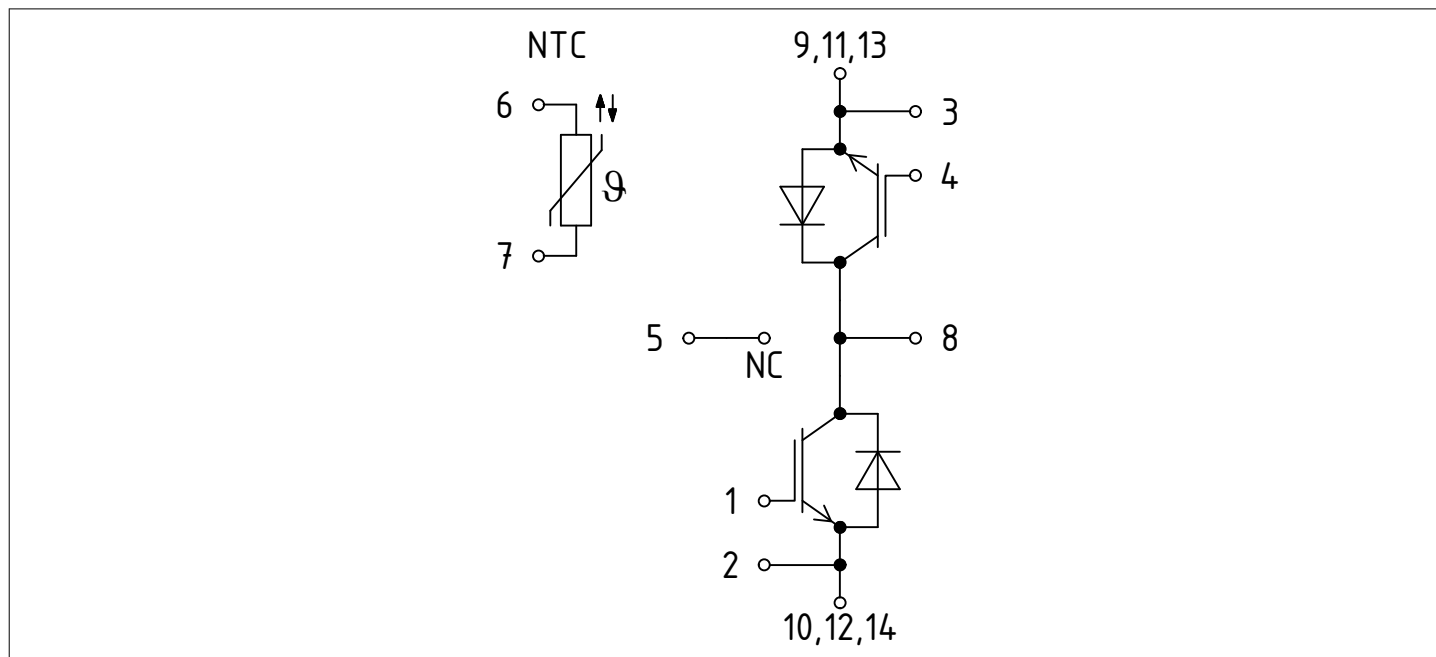
$Z_{th} = f(t)$



Temperature characteristic (typical), NTC-Thermistor

$R = f(T_{NTC})$





### Figure 1

7 Package outlines

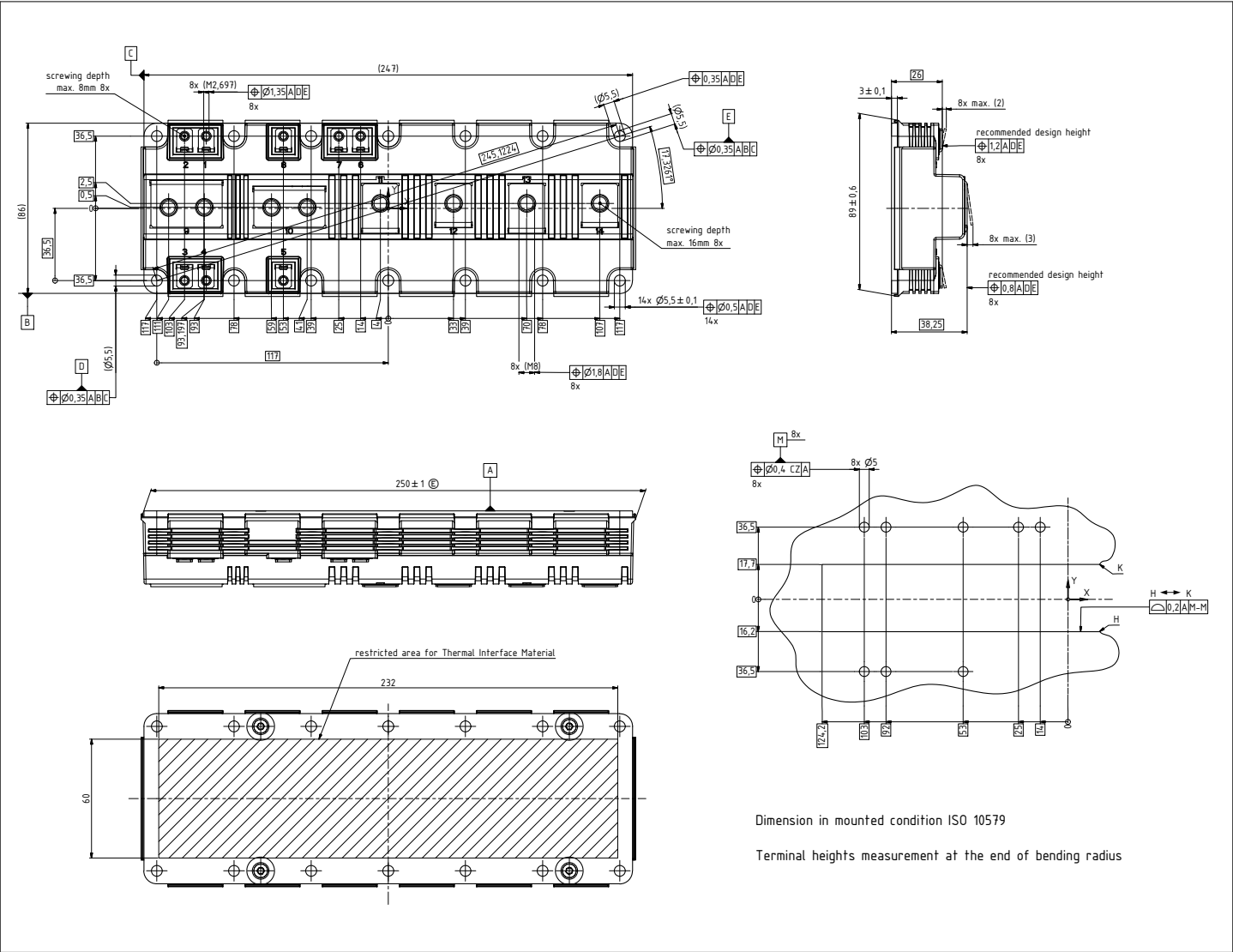


Figure 2

8 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           |                                                                                                               |                                                                                                                |                 |
|                   | <br>71549142846550549911530 | <br>71549142846550549911530 |                 |

Figure 3

## Revision history

| Document revision | Date of release | Description of changes                                                                                                                       |
|-------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1.00              | 2021-04-15      | Final datasheet                                                                                                                              |
| 1.10              | 2022-03-17      | Final datasheet - update to FF1800R23IE7 Rev. 1.0; Extension of diagrams to 4800A (except of dynamic data, which is limited by FF1800R23IE7) |

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