

## Final datasheet

### IHM-B module with Trench/Fieldstop IGBT4 and emitter controlled 4 diode

#### Features

- Electrical features
  - $V_{CES} = 3300\text{ V}$
  - $I_{C\text{ nom}} = 1200\text{ A} / I_{CRM} = 2400\text{ A}$
  - High current density
  - High DC stability
  - High short-circuit capability
  - Low switching losses
  - Low  $V_{CE,sat}$
  - $T_{vj,op} = 150^{\circ}\text{C}$
  - Trench IGBT 4
  - Unbeatable robustness
  - $V_{CE,sat}$  with positive temperature coefficient
  - Low  $Q_g$  and  $C_{res}$
- Mechanical features
  - ALSiC base plate for increased thermal cycling capability
  - High power density
  - Isolated base plate
  - Package with CTI > 600
  - RoHS compliant



Typical appearance

#### Potential applications

- High-power converters
- Medium-voltage converters
- Motor drives
- Traction drives
- UPS systems
- Active frontend (energy recovery)

#### Product validation

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

#### Description

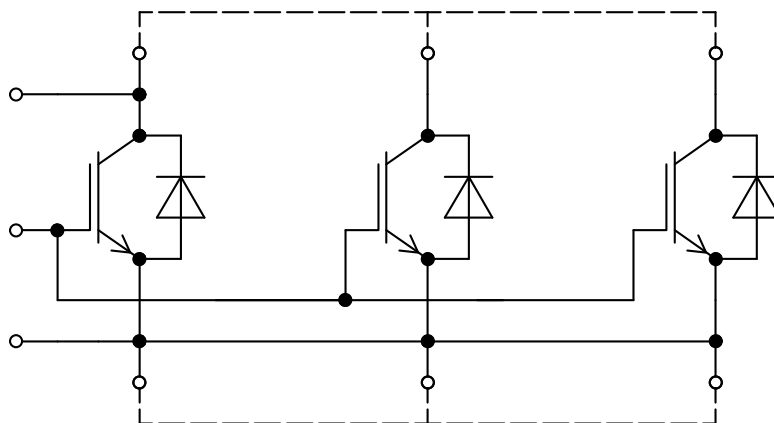




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## 1 Package

**Table 1** Insulation coordination

| Parameter                            | Symbol           | Note or test condition                | Values | Unit |
|--------------------------------------|------------------|---------------------------------------|--------|------|
| Isolation test voltage               | $V_{ISOL}$       | RMS, $f = 50$ Hz                      | 6.0    | kV   |
| Partial discharge extinction voltage | $V_{isol}$       | RMS, $f = 50$ Hz, $Q_{PD} \leq 10$ pC | 2.6    | kV   |
| DC stability                         | $V_{CE(D)}$      | $T_{vj} = 25$ °C, 100 Fit             | 2100   | V    |
| Material of module baseplate         |                  |                                       | AlSiC  |      |
| Creepage distance                    | $d_{Creep\ nom}$ | terminal to baseplate, nom.           | 32.2   | mm   |
| Clearance                            | $d_{Clear\ nom}$ | terminal to baseplate, nom.           | 19.1   | mm   |
| Comparative tracking index           | $CTI$            |                                       | > 600  |      |

**Table 2** Characteristic values

| Parameter                                | Symbol        | Note or test condition                          |           | Values |      |      | Unit |
|------------------------------------------|---------------|-------------------------------------------------|-----------|--------|------|------|------|
|                                          |               |                                                 |           | Min.   | Typ. | Max. |      |
| Stray inductance module                  | $L_{sCE}$     |                                                 |           |        | 6    |      | nH   |
| Module lead resistance, terminals - chip | $R_{AA'+CC'}$ | $T_C = 25\text{ }^{\circ}\text{C}$ , per switch |           |        | 0.08 |      | mΩ   |
| Module lead resistance, terminals - chip | $R_{CC'+EE'}$ | $T_C = 25\text{ }^{\circ}\text{C}$ , per switch |           |        | 0.14 |      | mΩ   |
| Storage temperature                      | $T_{stg}$     |                                                 |           | -40    |      | 150  | °C   |
| Mounting torque for module mounting      | $M$           | - Mounting according to valid application note  | M6, Screw | 4.25   |      | 5.75 | Nm   |
| Terminal connection torque               | $M$           | - Mounting according to valid application note  | M4, Screw | 1.8    |      | 2.1  | Nm   |
|                                          |               |                                                 | M8, Screw | 8      |      | 10   |      |
| Weight                                   | $G$           |                                                 |           |        | 1200 |      | g    |

## 2 IGBT, Inverter

**Table 3** Maximum rated values

| Parameter                         | Symbol    | Note or test condition        |                   | Values | Unit |
|-----------------------------------|-----------|-------------------------------|-------------------|--------|------|
| Collector-emitter voltage         | $V_{CES}$ |                               | $T_{vj} = -40$ °C | 3300   | V    |
|                                   |           |                               | $T_{vj} = 150$ °C | 3300   |      |
| Continuous DC collector current   | $I_{CDC}$ | $T_{vj\ max} = 150$ °C        | $T_C = 105$ °C    | 1200   | A    |
| Repetitive peak collector current | $I_{CRM}$ | $t_p$ limited by $T_{vj\ op}$ |                   | 2400   | 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 | $V_{CE\ sat}$ | $I_C = 1200\ A, V_{GE} = 15\ V$                                                                                                                  | $T_{vj} = 25\ ^\circ C$  |        | 2.40  | 2.65 | V        |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 2.95  |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 3.10  | 3.25 |          |
| Gate threshold voltage               | $V_{GETh}$    | $I_C = 47\ mA, V_{CE} = V_{GE}, T_{vj} = 25\ ^\circ C$                                                                                           |                          | 5.20   | 5.80  | 6.40 | V        |
| Gate charge                          | $Q_G$         | $V_{GE} = \pm 15\ V, V_{CC} = 1800\ V$                                                                                                           |                          |        | 20    |      | $\mu C$  |
| Internal gate resistor               | $R_{Gint}$    | $T_{vj} = 25\ ^\circ C$                                                                                                                          |                          |        | 1     |      | $\Omega$ |
| Input capacitance                    | $C_{ies}$     | $f = 1000\ kHz, T_{vj} = 25\ ^\circ C, V_{CE} = 25\ V, V_{GE} = 0\ V$                                                                            |                          |        | 140   |      | nF       |
| Reverse transfer capacitance         | $C_{res}$     | $f = 1000\ kHz, T_{vj} = 25\ ^\circ C, V_{CE} = 25\ V, V_{GE} = 0\ V$                                                                            |                          |        | 4     |      | nF       |
| Collector-emitter cut-off current    | $I_{CES}$     | $V_{CE} = 3300\ V, V_{GE} = 0\ V$                                                                                                                | $T_{vj} = 25\ ^\circ C$  |        |       | 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)  | $t_{don}$     | $I_C = 1200\ A, V_{CC} = 1800\ V, V_{GE} = \pm 15\ V, R_{Gon} = 1.2\ \Omega$                                                                     | $T_{vj} = 25\ ^\circ C$  |        | 0.540 |      | $\mu s$  |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 0.670 |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 0.700 |      |          |
| Rise time (inductive load)           | $t_r$         | $I_C = 1200\ A, V_{CC} = 1800\ V, V_{GE} = \pm 15\ V, R_{Gon} = 1.2\ \Omega$                                                                     | $T_{vj} = 25\ ^\circ C$  |        | 0.210 |      | $\mu s$  |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 0.230 |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 0.230 |      |          |
| Turn-off delay time (inductive load) | $t_{doff}$    | $I_C = 1200\ A, V_{CC} = 1800\ V, V_{GE} = \pm 15\ V, R_{Goff} = 6.2\ \Omega$                                                                    | $T_{vj} = 25\ ^\circ C$  |        | 3.900 |      | $\mu s$  |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 4.200 |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 4.300 |      |          |
| Fall time (inductive load)           | $t_f$         | $I_C = 1200\ A, V_{CC} = 1800\ V, V_{GE} = \pm 15\ V, R_{Goff} = 6.2\ \Omega$                                                                    | $T_{vj} = 25\ ^\circ C$  |        | 0.800 |      | $\mu s$  |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 1.400 |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 1.500 |      |          |
| Turn-on time (resistive load)        | $t_{on\_R}$   | $I_C = 500\ A, V_{CC} = 2000\ V, V_{GE} = \pm 15\ V, R_{Gon} = 1.2\ \Omega$                                                                      | $T_{vj} = 25\ ^\circ C$  | 1.20   |       |      | $\mu s$  |
| Turn-on energy loss per pulse        | $E_{on}$      | $I_C = 1200\ A, V_{CC} = 1800\ V, L_\sigma = 85\ nH, V_{GE} = \pm 15\ V, R_{Gon} = 1.2\ \Omega, di/dt = 4400\ A/\mu s (T_{vj} = 150\ ^\circ C)$  | $T_{vj} = 25\ ^\circ C$  |        | 1680  |      | mJ       |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 2490  |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 2750  |      |          |
| Turn-off energy loss per pulse       | $E_{off}$     | $I_C = 1200\ A, V_{CC} = 1800\ V, L_\sigma = 85\ nH, V_{GE} = \pm 15\ V, R_{Goff} = 6.2\ \Omega, dv/dt = 1450\ V/\mu s (T_{vj} = 150\ ^\circ C)$ | $T_{vj} = 25\ ^\circ C$  |        | 1760  |      | mJ       |
|                                      |               |                                                                                                                                                  | $T_{vj} = 125\ ^\circ C$ |        | 2320  |      |          |
|                                      |               |                                                                                                                                                  | $T_{vj} = 150\ ^\circ C$ |        | 2490  |      |          |

**(table continues...)**

**Table 4** (continued) Characteristic values

| Parameter                              | Symbol      | Note or test condition                                                                                                                                                             | Values |      |      | Unit             |
|----------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|------|------------------|
|                                        |             |                                                                                                                                                                                    | Min.   | Typ. | Max. |                  |
| SC data                                | $I_{SC}$    | $V_{GE} \leq 15 \text{ V}$ , $V_{CC} = 2400 \text{ V}$ ,<br>$V_{CEmax} = V_{CES} - L_{SCE} \cdot di/dt$<br>$t_p \leq 10 \mu\text{s}$ ,<br>$T_{vj} \leq 150 \text{ }^\circ\text{C}$ |        | 5200 |      | A                |
| Thermal resistance, junction to case   | $R_{thJC}$  | per IGBT                                                                                                                                                                           |        |      | 11.9 | K/kW             |
| Thermal resistance, case to heat sink  | $R_{thCH}$  | per IGBT, $\lambda_{grease} = 1 \text{ W/(m}\cdot\text{K)}$                                                                                                                        |        | 4.70 |      | K/kW             |
| Temperature under switching conditions | $T_{vj op}$ |                                                                                                                                                                                    | -40    |      | 150  | $^\circ\text{C}$ |

### 3 Diode, Inverter

**Table 5** Maximum rated values

| Parameter                       | Symbol      | Note or test condition                      |                                       | Values | Unit                  |
|---------------------------------|-------------|---------------------------------------------|---------------------------------------|--------|-----------------------|
| Repetitive peak reverse voltage | $V_{RRM}$   |                                             | $T_{vj} = -40 \text{ }^\circ\text{C}$ | 3300   | V                     |
|                                 |             |                                             | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 3300   |                       |
| Continuous DC forward current   | $I_F$       |                                             |                                       | 1200   | A                     |
| Repetitive peak forward current | $I_{FRM}$   | $t_p = 1 \text{ ms}$                        |                                       | 2400   | A                     |
| $I^2t$ - value                  | $I^2t$      | $t_p = 10 \text{ ms}$ , $V_R = 0 \text{ V}$ | $T_{vj} = 125 \text{ }^\circ\text{C}$ | 630    | $\text{kA}^2\text{s}$ |
|                                 |             |                                             | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 570    |                       |
| Maximum power dissipation       | $P_{RQM}$   |                                             | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 3600   | kW                    |
| Minimum turn-on time            | $t_{onmin}$ |                                             |                                       | 10     | $\mu\text{s}$         |

**Table 6** Characteristic values

| Parameter                     | Symbol   | Note or test condition                                                                                                                                               | Values                                |      |      | Unit |
|-------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------|------|
|                               |          |                                                                                                                                                                      | Min.                                  | Typ. | Max. |      |
| Forward voltage               | $V_F$    | $I_F = 1200 \text{ A}$ , $V_{GE} = 0 \text{ V}$                                                                                                                      | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 2.60 | 3.00 | V    |
|                               |          |                                                                                                                                                                      | $T_{vj} = 125 \text{ }^\circ\text{C}$ | 2.30 |      |      |
|                               |          |                                                                                                                                                                      | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 2.20 | 2.50 |      |
| Peak reverse recovery current | $I_{RM}$ | $V_{CC} = 1800 \text{ V}$ , $I_F = 1200 \text{ A}$ ,<br>$V_{GE} = -15 \text{ V}$ , $-di_F/dt = 4400 \text{ A}/\mu\text{s}$ ( $T_{vj} = 150 \text{ }^\circ\text{C}$ ) | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 1280 |      | A    |
|                               |          |                                                                                                                                                                      | $T_{vj} = 125 \text{ }^\circ\text{C}$ | 1460 |      |      |
|                               |          |                                                                                                                                                                      | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 1520 |      |      |

(table continues...)

**Table 6** (continued) Characteristic values

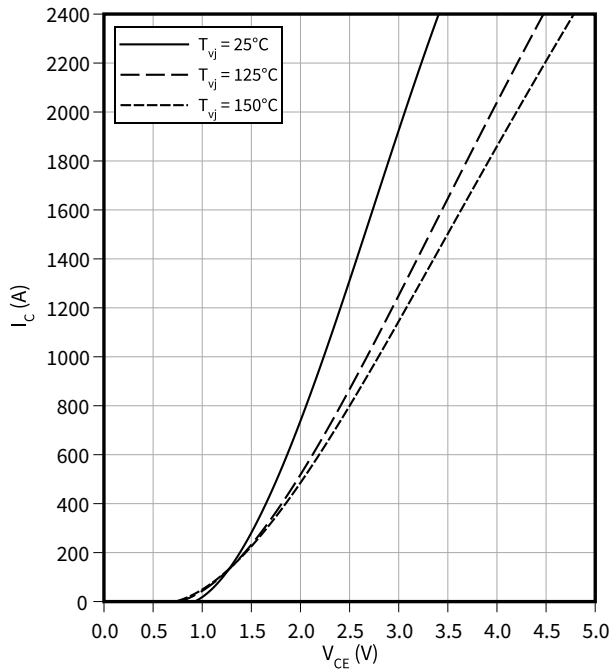
| Parameter                                 | Symbol      | Note or test condition                                                                                                                                                    | Values                                |      |      | Unit             |
|-------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------|------------------|
|                                           |             |                                                                                                                                                                           | Min.                                  | Typ. | Max. |                  |
| Recovered charge                          | $Q_r$       | $V_{CC} = 1800 \text{ V}$ , $I_F = 1200 \text{ A}$ ,<br>$V_{GE} = -15 \text{ V}$ , $-di_F/dt =$<br>$4400 \text{ A}/\mu\text{s}$ ( $T_{vj} = 150 \text{ }^\circ\text{C}$ ) | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 585  |      | $\mu\text{C}$    |
|                                           |             |                                                                                                                                                                           | $T_{vj} = 125 \text{ }^\circ\text{C}$ | 1150 |      |                  |
|                                           |             |                                                                                                                                                                           | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 1350 |      |                  |
| Reverse recovery energy                   | $E_{rec}$   | $V_{CC} = 1800 \text{ V}$ , $I_F = 1200 \text{ A}$ ,<br>$V_{GE} = -15 \text{ V}$ , $-di_F/dt =$<br>$4400 \text{ A}/\mu\text{s}$ ( $T_{vj} = 150 \text{ }^\circ\text{C}$ ) | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 545  |      | mJ               |
|                                           |             |                                                                                                                                                                           | $T_{vj} = 125 \text{ }^\circ\text{C}$ | 1230 |      |                  |
|                                           |             |                                                                                                                                                                           | $T_{vj} = 150 \text{ }^\circ\text{C}$ | 1460 |      |                  |
| Thermal resistance,<br>junction to case   | $R_{thJC}$  | per diode                                                                                                                                                                 |                                       |      | 16.7 | K/kW             |
| Thermal resistance, case to<br>heat sink  | $R_{thCH}$  | per diode, $\lambda_{grease} = 1 \text{ W}/(\text{m}\cdot\text{K})$                                                                                                       |                                       | 6.45 |      | K/kW             |
| Temperature under<br>switching conditions | $T_{vj op}$ |                                                                                                                                                                           | -40                                   |      | 150  | $^\circ\text{C}$ |

4 Characteristics diagrams

Output characteristic (typical), IGBT, Inverter

$I_C = f(V_{CE})$

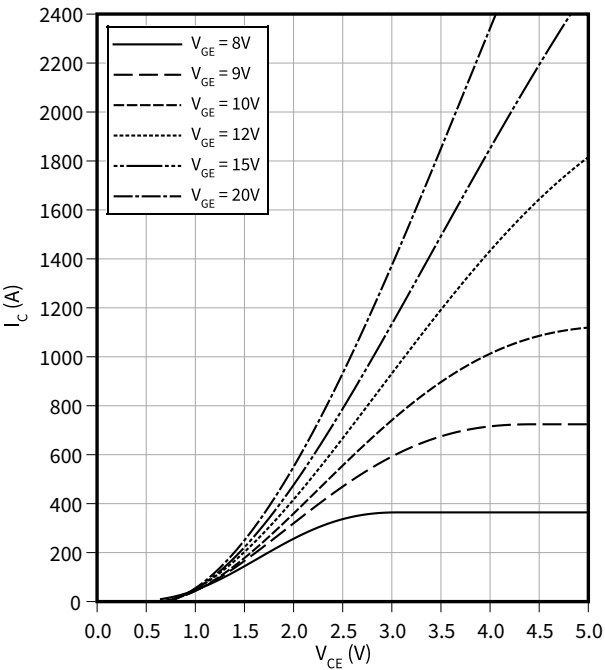
$V_{GE} = 15\text{ V}$



Output characteristic field (typical), IGBT, Inverter

$I_C = f(V_{CE})$

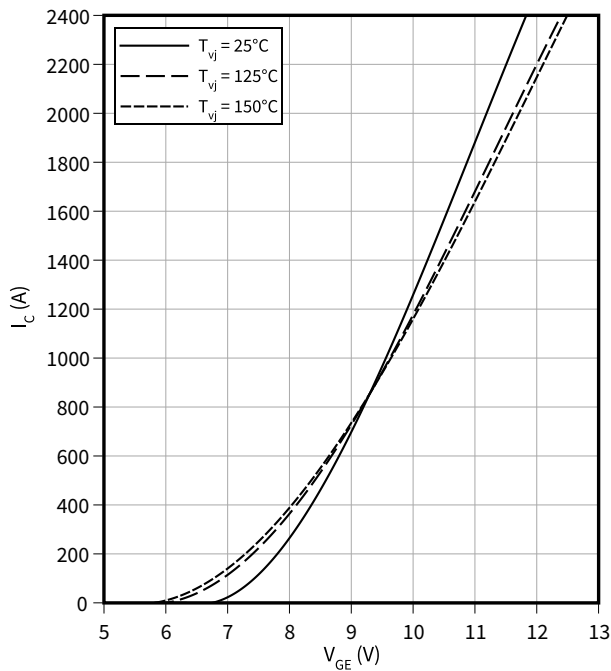
$T_{vj} = 150\text{ °C}$



Transfer characteristic (typical), IGBT, Inverter

$I_C = f(V_{GE})$

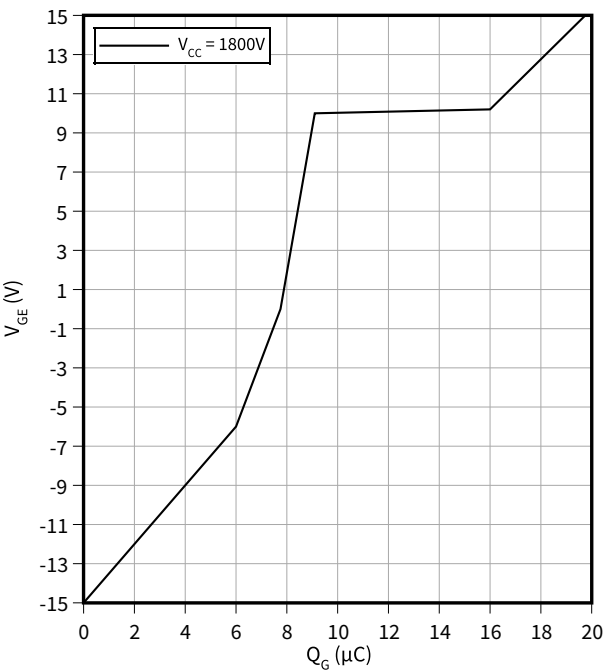
$V_{CE} = 20\text{ V}$



Gate charge characteristic (typical), IGBT, Inverter

$V_{GE} = f(Q_G)$

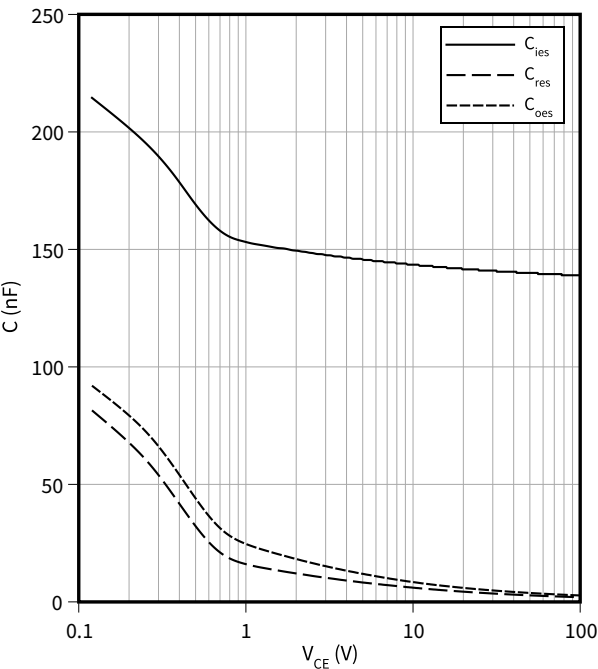
$I_C = 1200\text{ A}, T_{vj} = 25\text{ °C}$



4 Characteristics diagrams

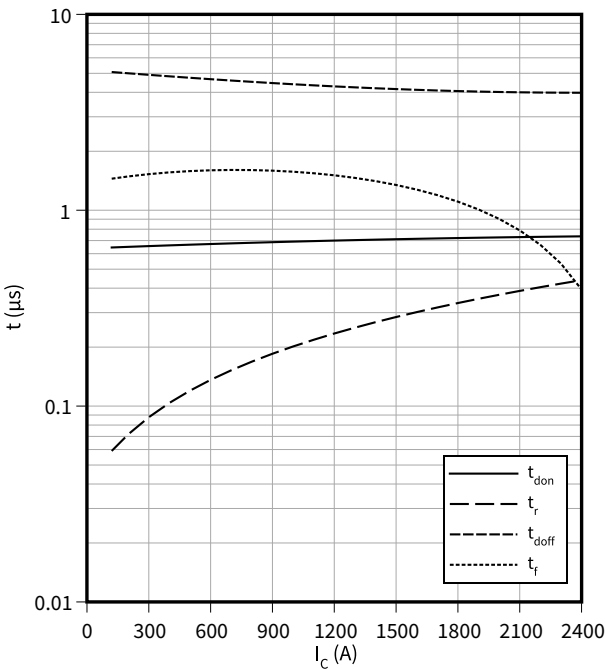
Capacity characteristic (typical), IGBT, Inverter

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



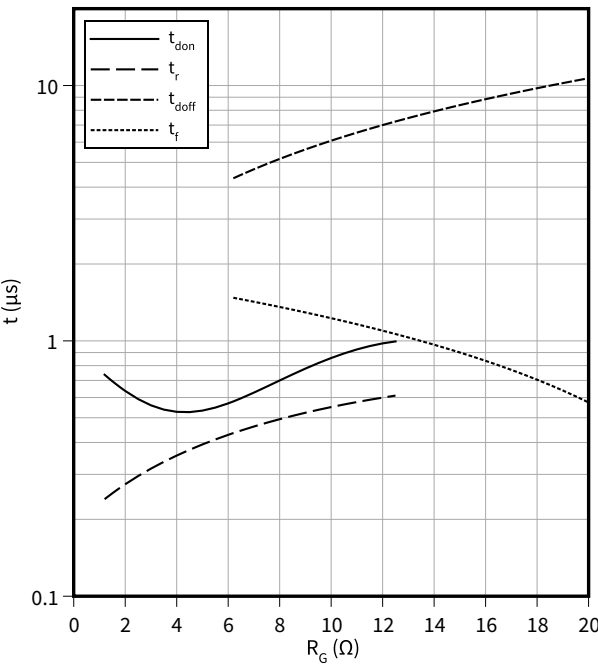
Switching times (typical), IGBT, Inverter

$t = f(I_C)$   
 $R_{Goff} = 6.2\text{ }\Omega$ ,  $R_{Gon} = 1.2\text{ }\Omega$ ,  $V_{CC} = 1800\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$ ,  $T_{vj} = 150\text{ }^{\circ}\text{C}$



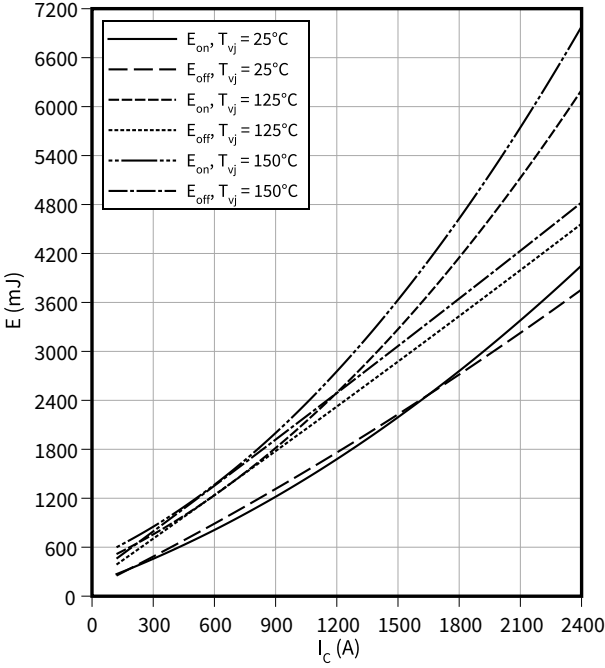
Switching times (typical), IGBT, Inverter

$t = f(R_G)$   
 $I_C = 1200\text{ A}$ ,  $V_{CC} = 1800\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$ ,  $T_{vj} = 150\text{ }^{\circ}\text{C}$



Switching losses (typical), IGBT, Inverter

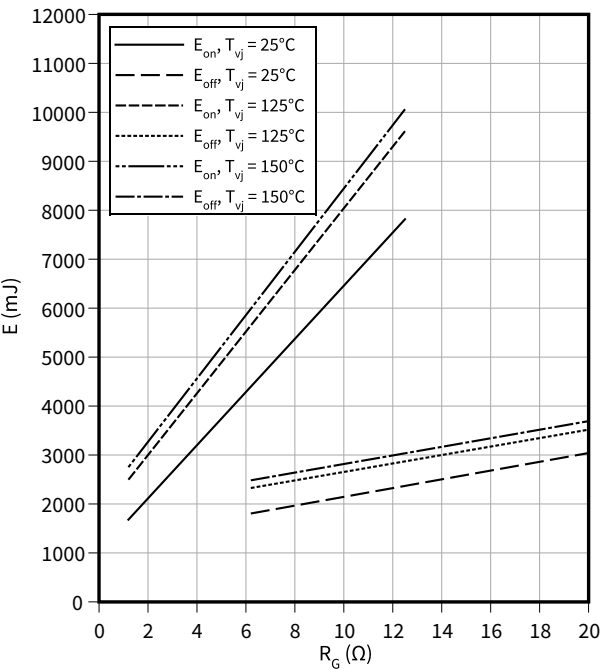
$E = f(I_C)$   
 $R_{Goff} = 6.2\text{ }\Omega$ ,  $R_{Gon} = 1.2\text{ }\Omega$ ,  $V_{CC} = 1800\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$



4 Characteristics diagrams

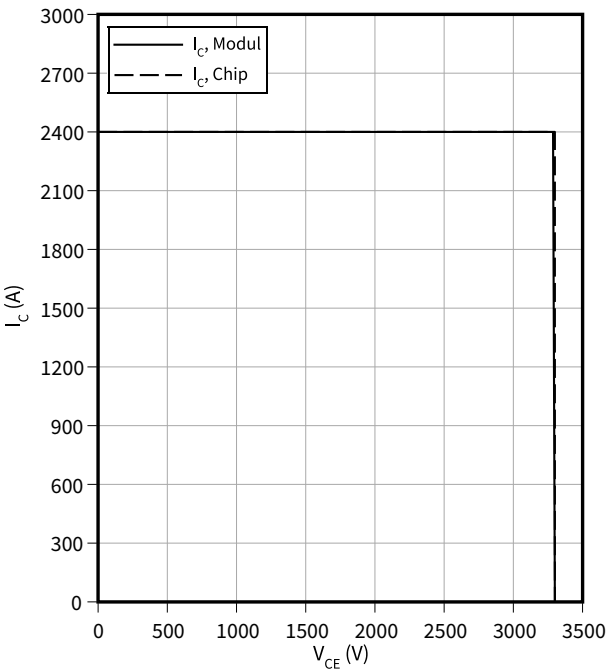
Switching losses (typical), IGBT, Inverter

$E = f(R_G)$   
 $I_C = 1200\text{ A}$ ,  $V_{CC} = 1800\text{ V}$ ,  $V_{GE} = \pm 15\text{ V}$



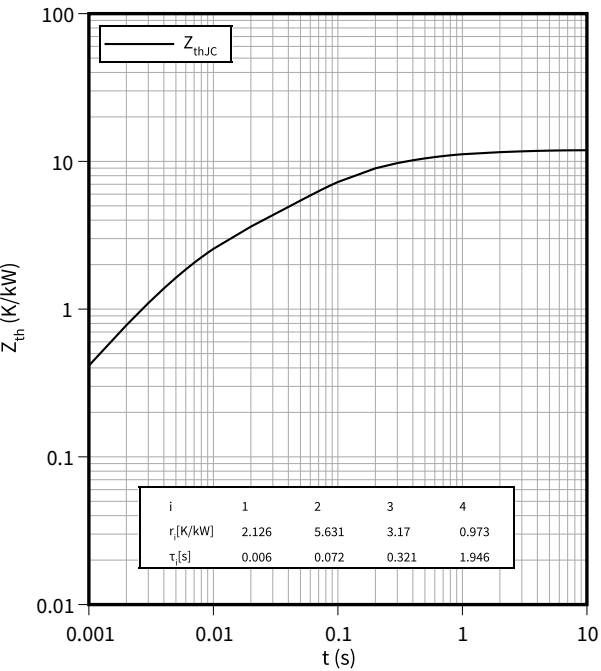
Reverse bias safe operating area (RBSOA), IGBT, Inverter

$I_C = f(V_{CE})$   
 $R_{Goff} = 6.2\ \Omega$ ,  $V_{GE} = 15\text{ V}$ ,  $T_{vj} = 150\text{ °C}$



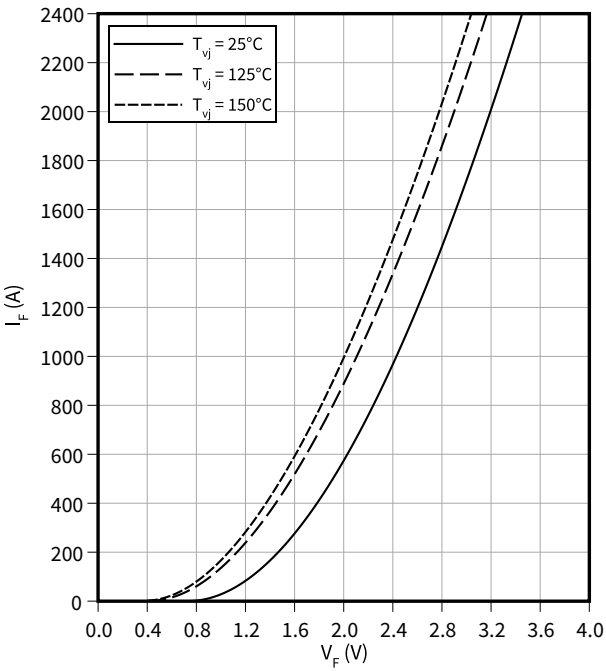
Transient thermal impedance, IGBT, Inverter

$Z_{th} = f(t)$



Forward characteristic (typical), Diode, Inverter

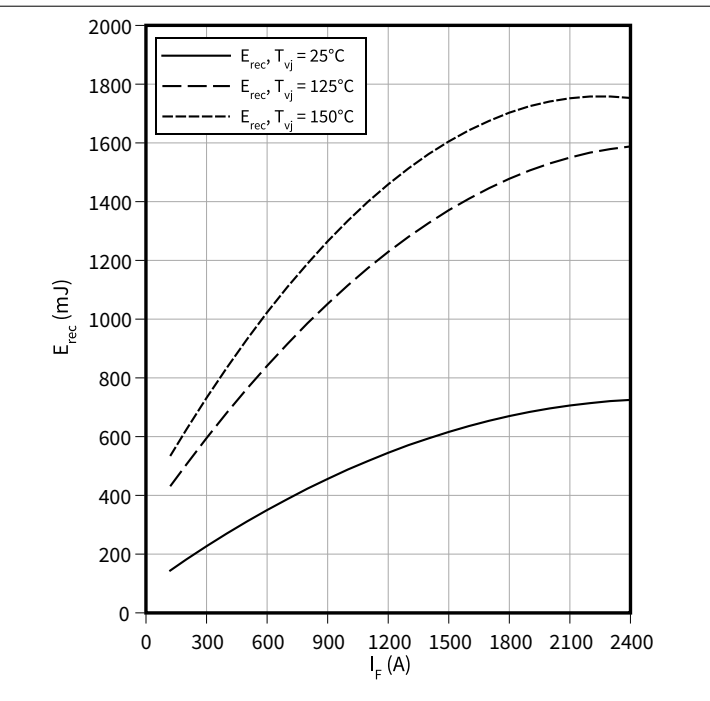
$I_F = f(V_F)$



4 Characteristics diagrams

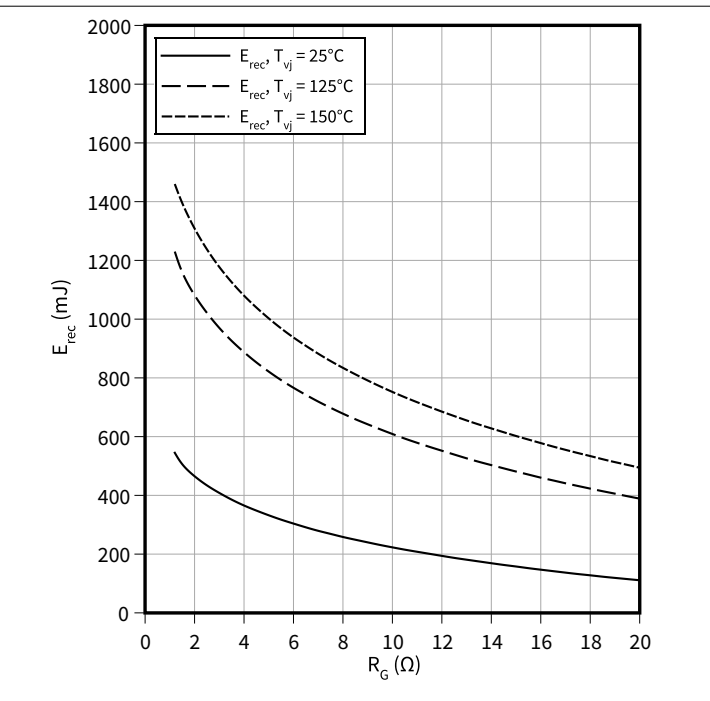
Switching losses (typical), Diode, Inverter

$E_{rec} = f(I_F)$   
 $V_{CE} = 1800\text{ V}, R_{Gon} = R_{Gon}(IGBT)$



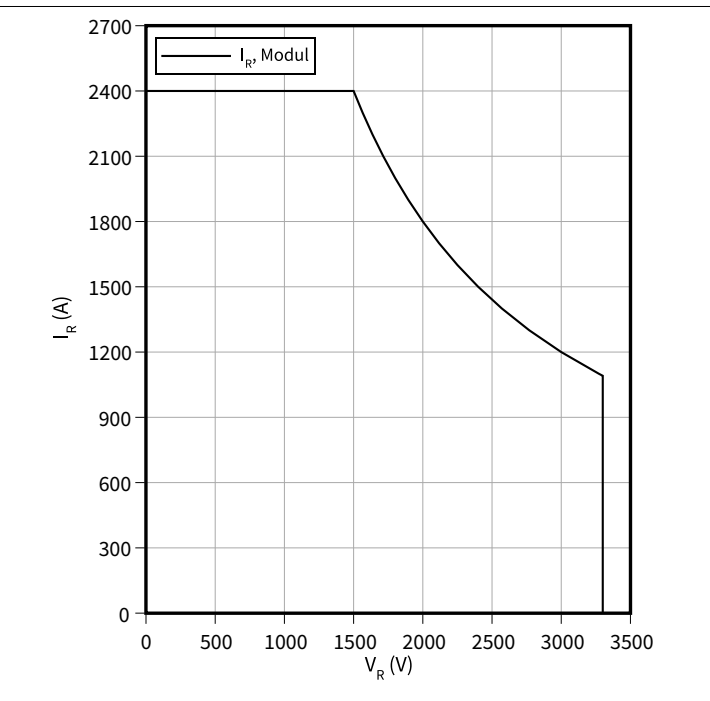
Switching losses (typical), Diode, Inverter

$E_{rec} = f(R_G)$   
 $V_{CE} = 1800\text{ V}, I_F = 1200\text{ A}$



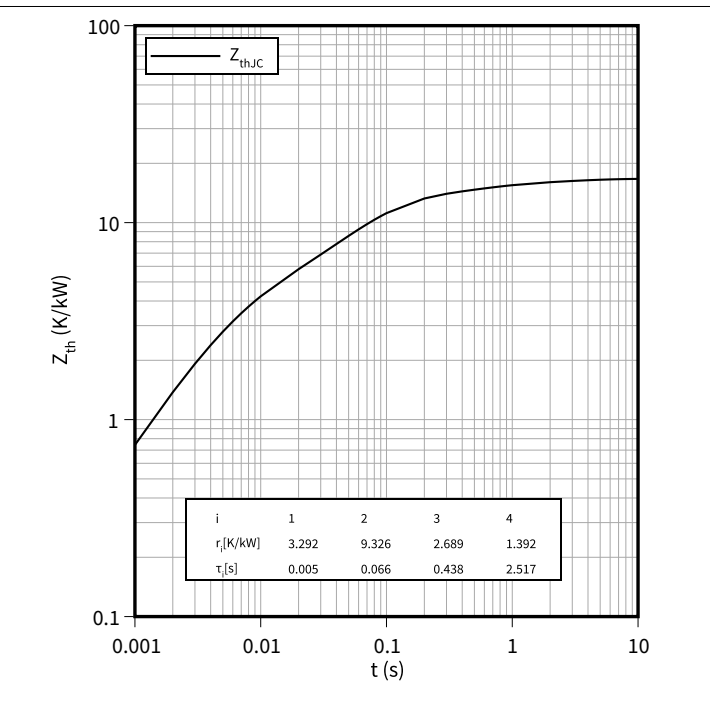
Safe operating area (SOA), Diode, Inverter

$I_R = f(V_R)$   
 $T_{vj} = 150\text{ °C}$



Transient thermal impedance, Diode, Inverter

$Z_{th} = f(t)$



## 5 Circuit diagram

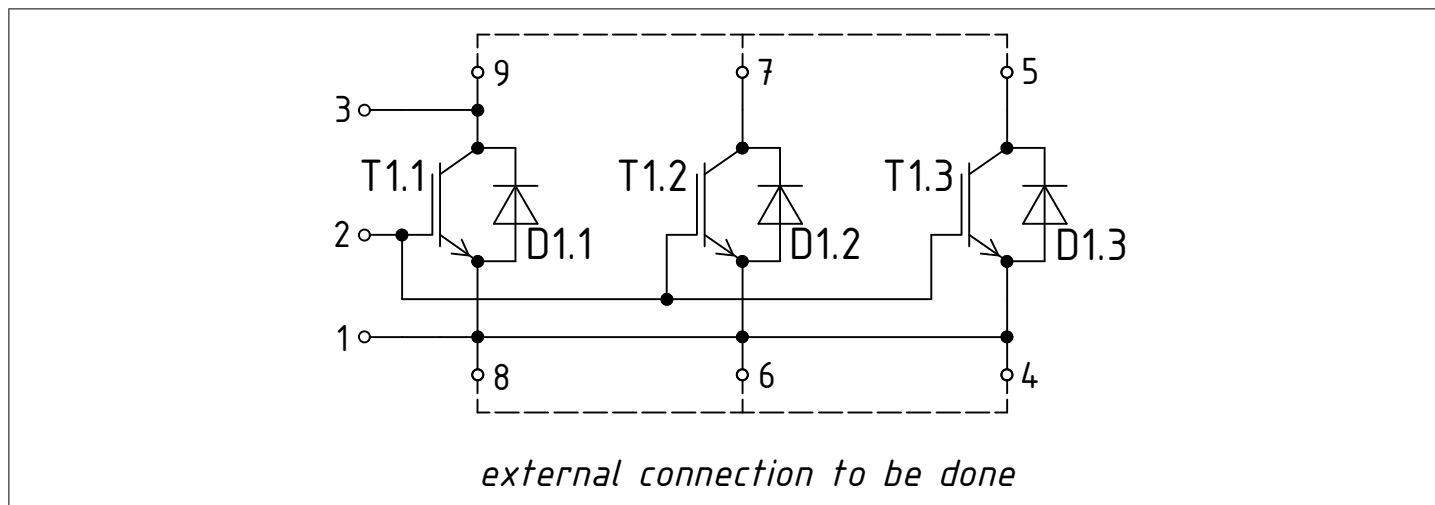


Figure 1

## 6 Package outlines

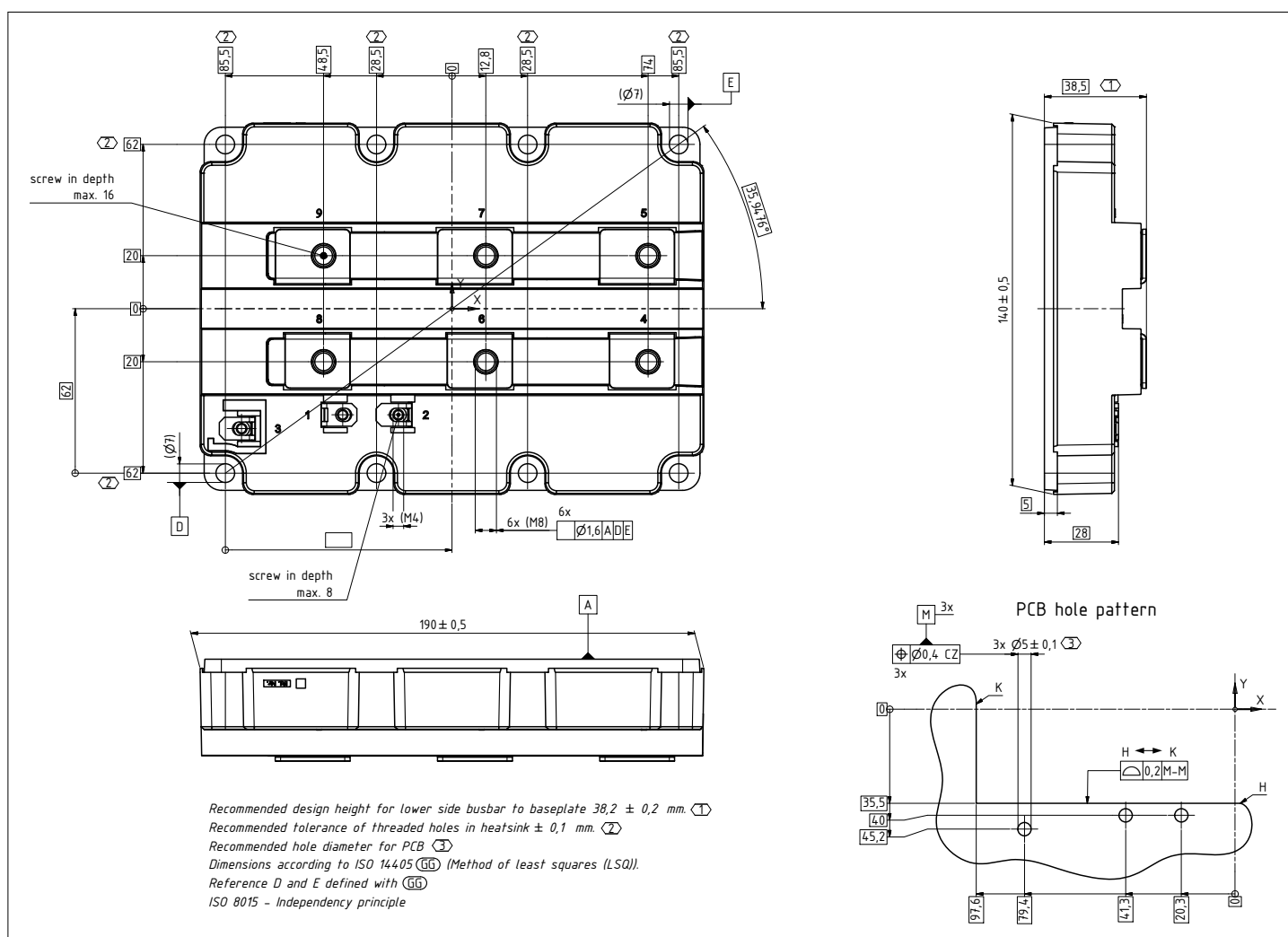


Figure 2

7 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      | Content                                                                                                                                                                                                                                    | Digit   | Example         |
|                   | 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> <div>7154914284655054991153071549142846550549911530</div> |         |                 |

Figure 3



Revision history

Revision history

| Document revision | Date of release | Description of changes |
|-------------------|-----------------|------------------------|
| 0.10              | 2024-03-18      | Initial version        |
| 1.00              | 2024-04-30      | Final datasheet        |

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