

**Final datasheet**  
**CoolSiC™ 1200 V SiC Trench MOSFET**

**Features**

- $V_{DS} = 1200\text{ V}$  at  $T_{vj} = -55...175^{\circ}\text{C}$
- $I_{DC} = 22\text{ A}$  at  $T_C = 25^{\circ}\text{C}$
- $R_{DS(on)} = 117\text{ m}\Omega$  at  $V_{GS} = 20\text{ V}$ ,  $T_{vj} = 25^{\circ}\text{C}$
- New performance-optimized chip technology (Gen1p) with improved  $R_{DS(on)}$  \* A FOM
- Increased recommended turn-on voltage ( $V_{GS(on)} = 20\text{ V}$ ) for lower  $R_{DS(on)}$
- Best in class switching energy for lower switching losses and reduced cooling efforts
- Lowest device capacitances for higher switching speeds and higher power density
- A combination of low  $C_{rss}/C_{iss}$  ratio and high  $V_{GS(th)}$  to avoid parasitic turn-on and enable unipolar gate driving
- Reduced total gate charge  $Q_{Gtot}$  for lower driving power and losses
- .XT die attach technology for best in class thermal performance
- Sense pin for optimized switching performance
- Suitable for HV creepage requirements

**Potential applications**

- On-board charger
- DC/DC converter
- Auxiliary drives

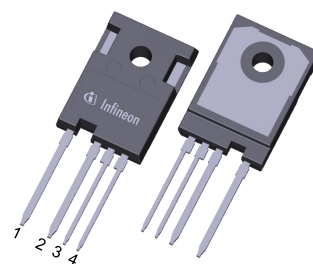
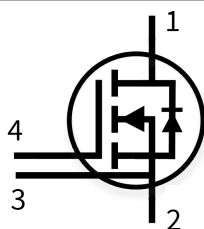
**Product validation**

- Qualified for Automotive Applications. Product Validation according to AEC-Q100/101

**Description**

Pin definition:

- 1 – drain
- 2 – source
- 3 – Kelvin sense contact
- 4 – gate



| Type            | Package              | Marking   |
|-----------------|----------------------|-----------|
| AIMZH120R120M1T | PG-TO247-4-STD-NT6.7 | A12M1T120 |



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**1 Package**

## 1 Package

**Table 1** Characteristic values

| Parameter                                           | Symbol        | Note or test condition | Values |      |      | Unit |
|-----------------------------------------------------|---------------|------------------------|--------|------|------|------|
|                                                     |               |                        | Min.   | Typ. | Max. |      |
| Storage temperature                                 | $T_{stg}$     |                        | -55    |      | 150  | °C   |
| Soldering temperature                               | $T_{sold}$    |                        |        |      | 260  | °C   |
| MOSFET/body diode thermal resistance, junction-case | $R_{th(j-c)}$ |                        |        | 0.87 | 1.13 | K/W  |

**Note:** Not subject to production test. Parameter verified by design/characterization.

## 2 MOSFET

**Table 2** Maximum rated values

| Parameter                                                                    | Symbol    | Note or test condition                                               |                       | Values   | Unit |
|------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------|-----------------------|----------|------|
| Drain-source voltage                                                         | $V_{DSS}$ | $T_{vj} = -55...175\text{ °C}$                                       |                       | 1200     | V    |
| Continuous DC drain current for $R_{th(j-c,max)}$ , limited by $T_{vj(max)}$ | $I_{DDC}$ | $V_{GS} = 20\text{ V}$                                               | $T_c = 25\text{ °C}$  | 22       | A    |
|                                                                              |           |                                                                      | $T_c = 100\text{ °C}$ | 16       |      |
| Peak drain current, $t_p$ limited by $T_{vj(max)}$                           | $I_{DM}$  | $V_{GS} = 20\text{ V}$                                               |                       | 58       | A    |
| Gate-source voltage, max. transient voltage <sup>1)</sup>                    | $V_{GS}$  | $t_p \leq 0.5\text{ }\mu\text{s}$ , $D < 0.01$                       |                       | -10...25 | V    |
| Gate-source voltage, max. static voltage                                     | $V_{GS}$  |                                                                      |                       | -5...23  | V    |
| Avalanche energy, single pulse                                               | $E_{AS}$  | $I_D = 5.1\text{ A}$ , $V_{DD} = 50\text{ V}$ , $L = 7.02\text{ mH}$ |                       | 92       | mJ   |
| Power dissipation, limited by $T_{vj(max)}$                                  | $P_{tot}$ |                                                                      | $T_c = 25\text{ °C}$  | 133      | W    |
|                                                                              |           |                                                                      | $T_c = 100\text{ °C}$ | 66       |      |

1) **Important note::** The selection of positive and negative gate-source voltages impacts the long-term behavior of the device. The design guidelines described in Application Note AN2018-09 must be considered to ensure sound operation of the device over the planned lifetime.

**Table 3** Recommended values

| Parameter                         | Symbol        | Note or test condition | Values | Unit |
|-----------------------------------|---------------|------------------------|--------|------|
| Recommended turn-on gate voltage  | $V_{GS(on)}$  |                        | 20     | V    |
| Recommended turn-off gate voltage | $V_{GS(off)}$ |                        | 0      | V    |

**Table 4**                      **Characteristic values**

| Parameter                                  | Symbol       | Note or test condition                                                                                                                                                      |                                                            | Values |      |      | Unit |
|--------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------|------|------|------|
|                                            |              |                                                                                                                                                                             |                                                            | Min.   | Typ. | Max. |      |
| Drain-source on-state resistance           | $R_{DS(on)}$ | $I_D = 7 \text{ A}$                                                                                                                                                         | $T_{vj} = 25 \text{ °C}$ ,<br>$V_{GS(on)} = 20 \text{ V}$  |        | 117  | 150  | mΩ   |
|                                            |              |                                                                                                                                                                             | $T_{vj} = 100 \text{ °C}$ ,<br>$V_{GS(on)} = 20 \text{ V}$ |        | 164  |      |      |
|                                            |              |                                                                                                                                                                             | $T_{vj} = 175 \text{ °C}$ ,<br>$V_{GS(on)} = 20 \text{ V}$ |        | 234  |      |      |
|                                            |              |                                                                                                                                                                             | $T_{vj} = 25 \text{ °C}$ ,<br>$V_{GS(on)} = 18 \text{ V}$  |        | 126  |      |      |
| Gate-source threshold voltage              | $V_{GS(th)}$ | $I_D = 2.2 \text{ mA}$ , $V_{DS} = V_{GS}$<br>(tested after 1 ms pulse<br>at $V_{GS} = 20 \text{ V}$ )                                                                      | $T_{vj} = 25 \text{ °C}$                                   | 3.5    | 4.3  | 5.1  | V    |
|                                            |              |                                                                                                                                                                             | $T_{vj} = 175 \text{ °C}$                                  |        | 3.8  |      |      |
| Zero gate-voltage drain current            | $I_{DSS}$    | $V_{DS} = 1200 \text{ V}$ , $V_{GS} = 0 \text{ V}$                                                                                                                          | $T_{vj} = 25 \text{ °C}$                                   |        | 0.2  | 6    | μA   |
|                                            |              |                                                                                                                                                                             | $T_{vj} = 175 \text{ °C}$                                  |        | 50   |      |      |
| Gate leakage current                       | $I_{GSS}$    | $V_{DS} = 0 \text{ V}$                                                                                                                                                      | $V_{GS} = 25 \text{ V}$                                    |        |      | 100  | nA   |
|                                            |              |                                                                                                                                                                             | $V_{GS} = -10 \text{ V}$                                   |        |      | -100 |      |
| Forward transconductance                   | $g_{fs}$     | $I_D = 7 \text{ A}$ , $V_{DS} = 20 \text{ V}$                                                                                                                               |                                                            |        | 4.4  |      | S    |
| Short-circuit withstand time <sup>1)</sup> | $t_{SC}$     | $V_{DD} \leq 800 \text{ V}$ ,<br>$V_{DS,peak} < 1200 \text{ V}$ ,<br>$T_{vj(start)} = 25 \text{ °C}$ ,<br>$R_{G,ext} = 20 \text{ Ω}$                                        | $V_{GS(on)} = 20 \text{ V}$                                |        | 1.5  |      | μs   |
|                                            |              |                                                                                                                                                                             | $V_{GS(on)} = 18 \text{ V}$                                |        | 2    |      |      |
|                                            |              |                                                                                                                                                                             | $V_{GS(on)} = 15 \text{ V}$                                |        | 2.5  |      |      |
| Internal gate resistance                   | $R_{G,int}$  | $f = 1 \text{ MHz}$ , $V_{AC} = 25 \text{ mV}$                                                                                                                              |                                                            |        | 3.9  |      | Ω    |
| Input capacitance                          | $C_{iss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                        |                                                            |        | 458  |      | pF   |
| Output capacitance                         | $C_{oss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                        |                                                            |        | 25   |      | pF   |
| Reverse transfer capacitance               | $C_{rss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                        |                                                            |        | 1    |      | pF   |
| $C_{oss}$ stored energy                    | $E_{oss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                        |                                                            |        | 11   |      | μJ   |
| Total gate charge                          | $Q_G$        | $V_{DD} = 800 \text{ V}$ , $I_D = 7 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse                                                                                  |                                                            |        | 18   |      | nC   |
| Plateau gate charge                        | $Q_{GS(pl)}$ | $V_{DD} = 800 \text{ V}$ , $I_D = 7 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse                                                                                  |                                                            |        | 5    |      | nC   |
| Gate-to-drain charge                       | $Q_{GD}$     | $V_{DD} = 800 \text{ V}$ , $I_D = 7 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse                                                                                  |                                                            |        | 3    |      | nC   |
| Turn-on delay time                         | $t_{d(on)}$  | $V_{DD} = 800 \text{ V}$ , $I_D = 7 \text{ A}$ ,<br>$V_{GS} = 0/20 \text{ V}$ ,<br>$R_{GS(on)} = 2 \text{ Ω}$ ,<br>$R_{GS(off)} = 2 \text{ Ω}$ , $L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ °C}$                                   |        | 7    |      | ns   |
|                                            |              |                                                                                                                                                                             | $T_{vj} = 175 \text{ °C}$                                  |        | 7    |      |      |

(table continues...)

**Table 4** (continued) Characteristic values

| Parameter                    | Symbol       | Note or test condition                                                                                                                                       | Values                                |      |      | Unit             |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------|------------------|
|                              |              |                                                                                                                                                              | Min.                                  | Typ. | Max. |                  |
| Rise time                    | $t_r$        | $V_{DD} = 800 \text{ V}, I_D = 7 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 5    |      | ns               |
|                              |              |                                                                                                                                                              | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 6    |      |                  |
| Turn-off delay time          | $t_{d(off)}$ | $V_{DD} = 800 \text{ V}, I_D = 7 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 15   |      | ns               |
|                              |              |                                                                                                                                                              | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 16   |      |                  |
| Fall time                    | $t_f$        | $V_{DD} = 800 \text{ V}, I_D = 7 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 13   |      | ns               |
|                              |              |                                                                                                                                                              | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 15   |      |                  |
| Turn-on energy               | $E_{on}$     | $V_{DD} = 800 \text{ V}, I_D = 7 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 29   |      | $\mu\text{J}$    |
|                              |              |                                                                                                                                                              | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 54   |      |                  |
| Turn-off energy              | $E_{off}$    | $V_{DD} = 800 \text{ V}, I_D = 7 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 37   |      | $\mu\text{J}$    |
|                              |              |                                                                                                                                                              | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 43   |      |                  |
| Total switching energy       | $E_{tot}$    | $V_{DD} = 800 \text{ V}, I_D = 7 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 66   |      | $\mu\text{J}$    |
|                              |              |                                                                                                                                                              | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 97   |      |                  |
| Virtual junction temperature | $T_{vj}$     |                                                                                                                                                              | -55                                   |      | 175  | $^\circ\text{C}$ |

1) verified by the design/characterization

**Note:** Dynamic test circuit see Fig. F.

### 3 Body diode (MOSFET)

**Table 5** Maximum rated values

| Parameter                                                                         | Symbol    | Note or test condition                      | Values                             | Unit |
|-----------------------------------------------------------------------------------|-----------|---------------------------------------------|------------------------------------|------|
| Drain-source voltage                                                              | $V_{DSS}$ | $T_{vj} = -55...175 \text{ }^\circ\text{C}$ | 1200                               | V    |
| Continuous reverse drain current for $R_{th(j-c,max)}$ , limited by $T_{vj(max)}$ | $I_{SDC}$ | $V_{GS} = 0 \text{ V}$                      | $T_c = 25 \text{ }^\circ\text{C}$  | A    |
|                                                                                   |           |                                             | $T_c = 100 \text{ }^\circ\text{C}$ |      |
| Peak reverse drain current, $t_p$ limited by $T_{vj(max)}$                        | $I_{SM}$  | $V_{GS} = 0 \text{ V}$                      | 15                                 | A    |

**Table 6** Characteristic values

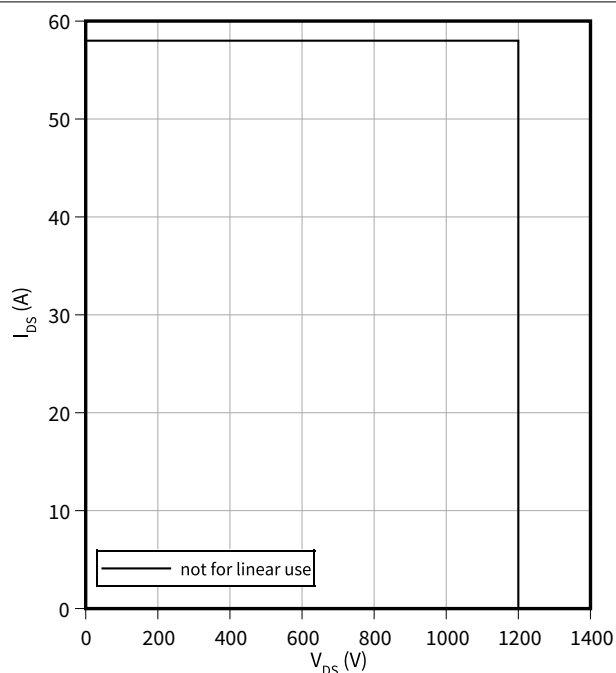
| Parameter                            | Symbol    | Note or test condition                                                                                                                                         |                           | Values |      |      | Unit |
|--------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|------|------|------|
|                                      |           |                                                                                                                                                                |                           | Min.   | Typ. | Max. |      |
| Drain-source reverse voltage         | $V_{SD}$  | $I_{SD} = 7 \text{ A}$ , $V_{GS} = 0 \text{ V}$                                                                                                                | $T_{vj} = 25 \text{ °C}$  |        | 3.9  | 5    | V    |
|                                      |           |                                                                                                                                                                | $T_{vj} = 100 \text{ °C}$ |        | 3.8  |      |      |
|                                      |           |                                                                                                                                                                | $T_{vj} = 175 \text{ °C}$ |        | 3.7  |      |      |
| MOSFET forward recovery charge       | $Q_{fr}$  | $V_{DD} = 800 \text{ V}$ ,<br>$I_{SD} = 7 \text{ A}$ , $V_{GS} = 0 \text{ V}$ ,<br>$di_{SD}/dt = 3000 \text{ A}/\mu\text{s}$ , $Q_{fr}$<br>includes also $Q_C$ | $T_{vj} = 25 \text{ °C}$  |        | 60   |      | nC   |
|                                      |           |                                                                                                                                                                | $T_{vj} = 175 \text{ °C}$ |        | 170  |      |      |
| MOSFET peak forward recovery current | $I_{frm}$ | $V_{DD} = 800 \text{ V}$ ,<br>$I_{SD} = 7 \text{ A}$ , $V_{GS} = 0 \text{ V}$ ,<br>$di_{SD}/dt = 3000 \text{ A}/\mu\text{s}$ , $Q_{fr}$<br>includes also $Q_C$ | $T_{vj} = 25 \text{ °C}$  |        | 8    |      | A    |
|                                      |           |                                                                                                                                                                | $T_{vj} = 175 \text{ °C}$ |        | 15   |      |      |
| Virtual junction temperature         | $T_{vj}$  |                                                                                                                                                                |                           | -55    |      | 175  | °C   |

## 4 Characteristics diagrams

### Reverse bias safe operating area (RBSOA)

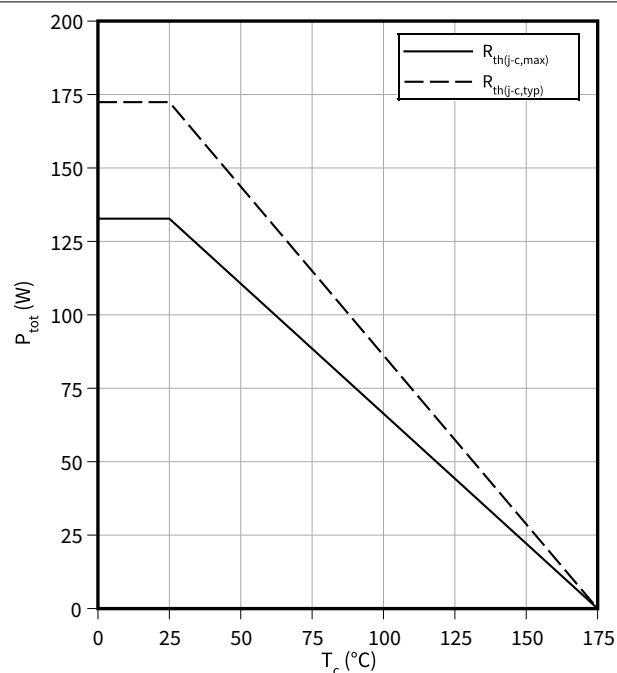
$$I_{DS} = f(V_{DS})$$

$$T_{vj} \leq 175\text{ °C}, V_{GS} = 0/20\text{ V}, T_c = 25\text{ °C}$$



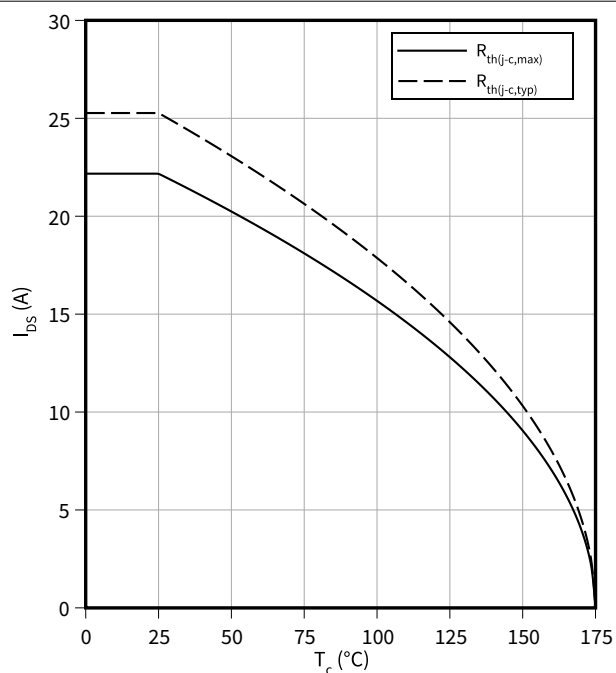
### Power dissipation as a function of case temperature

$$P_{tot} = f(T_c)$$



### Maximum DC drain to source current as a function of case temperature

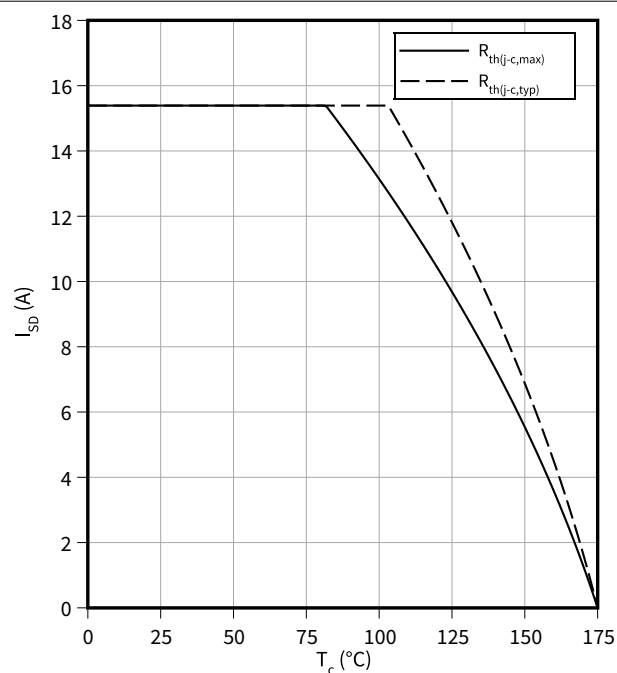
$$I_{DS} = f(T_c)$$



### Maximum source to drain current as a function of case temperature

$$I_{SD} = f(T_c)$$

$$V_{GS} = 0\text{ V}$$

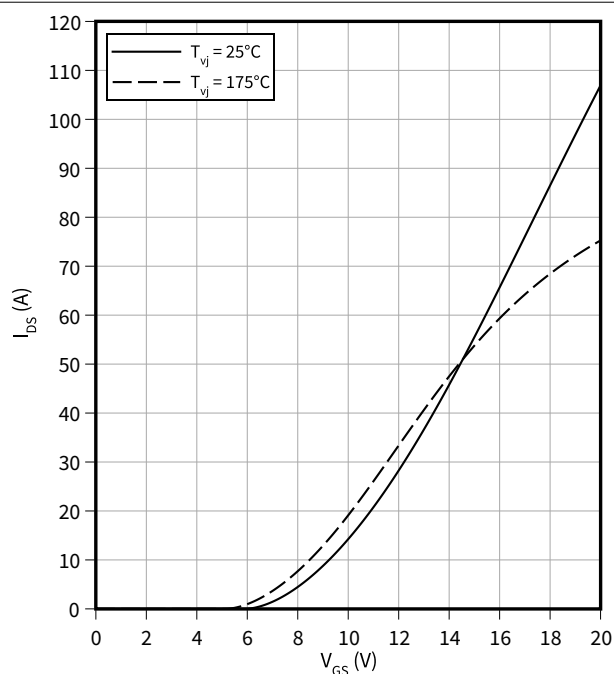


**4 Characteristics diagrams**

**Typical transfer characteristic**

$$I_{DS} = f(V_{GS})$$

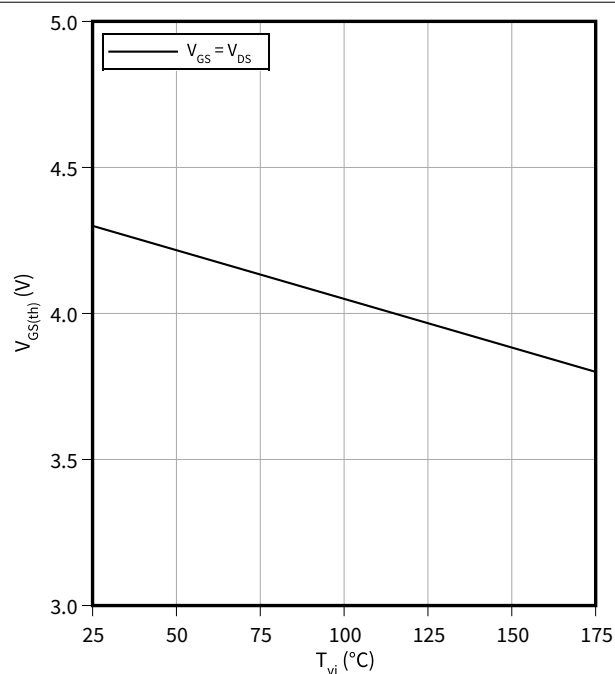
$$V_{DS} = 20 \text{ V}$$



**Typical gate-source threshold voltage as a function of junction temperature**

$$V_{GS(th)} = f(T_{vj})$$

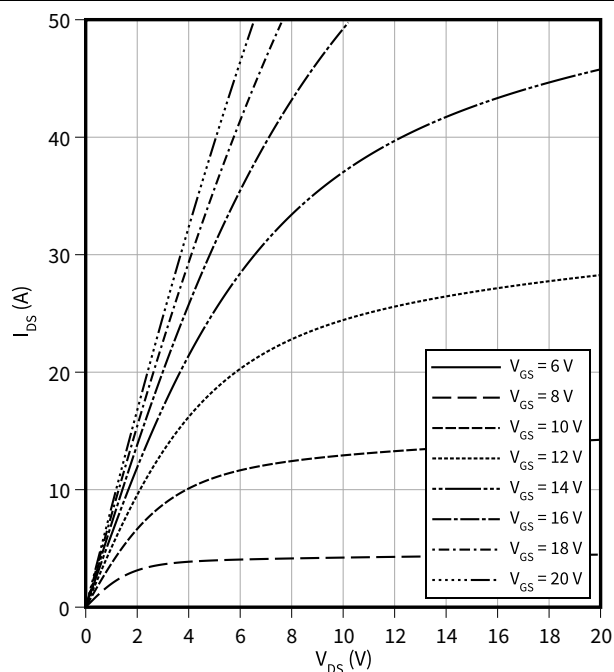
$$I_D = 2.2 \text{ mA}$$



**Typical output characteristic,  $V_{GS}$  as parameter**

$$I_{DS} = f(V_{DS})$$

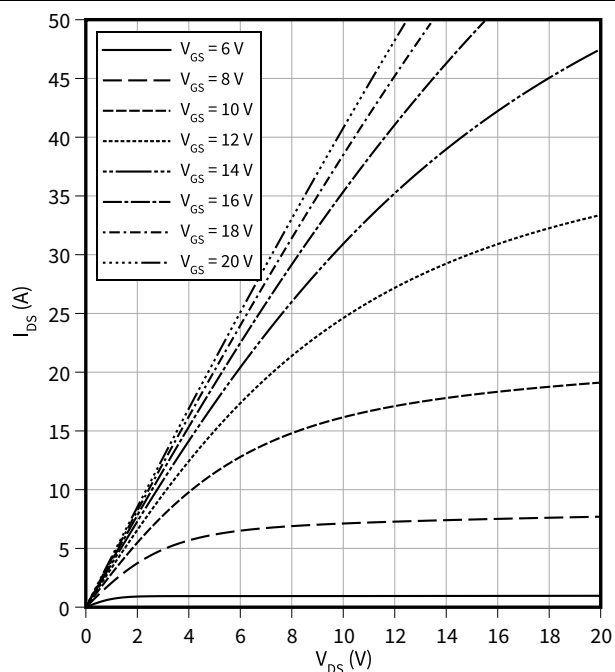
$$T_{vj} = 25^\circ\text{C}$$



**Typical output characteristic,  $V_{GS}$  as parameter**

$$I_{DS} = f(V_{DS})$$

$$T_{vj} = 175^\circ\text{C}$$

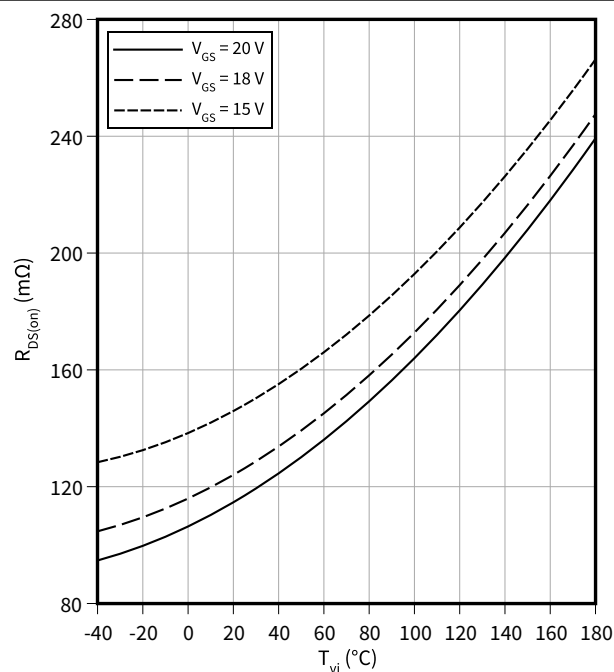


**4 Characteristics diagrams**

**Typical on-state resistance as a function of junction temperature**

$$R_{DS(on)} = f(T_{vj})$$

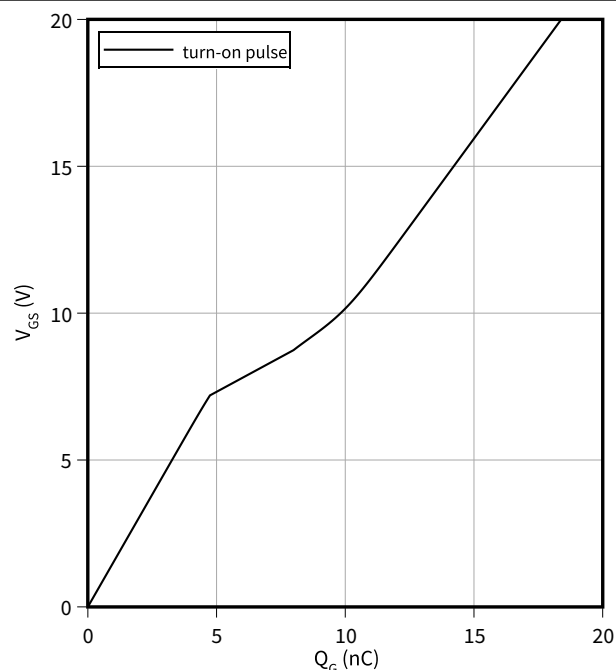
$$I_D = 7 \text{ A}$$



**Typical gate charge**

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

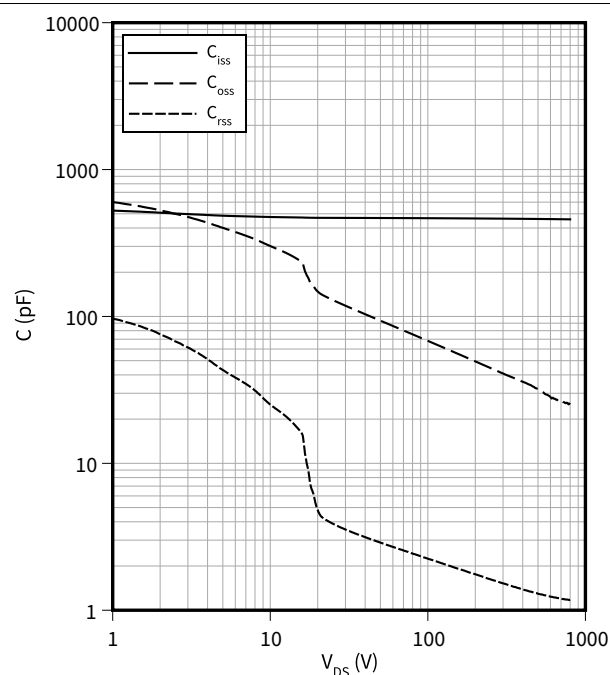
$$I_D = 7 \text{ A}, V_{DS} = 800 \text{ V}$$



**Typical capacitance as a function of drain-source voltage**

$$C = f(V_{DS})$$

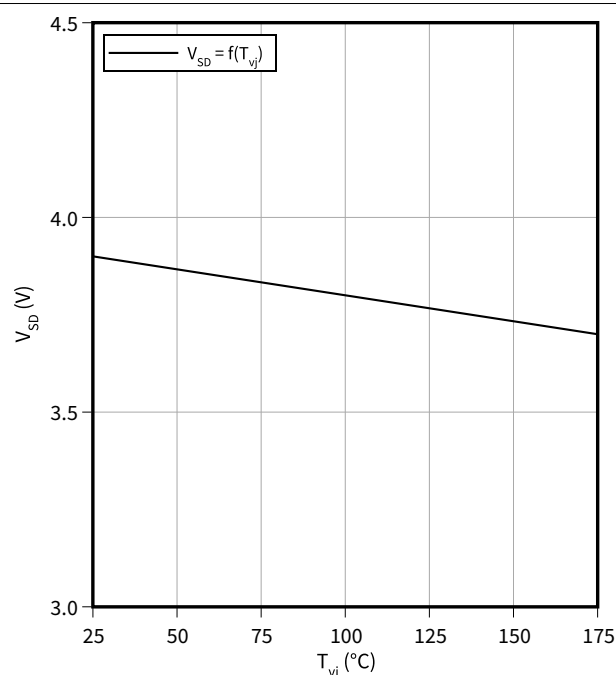
$$f = 100 \text{ kHz}, V_{GS} = 0 \text{ V}$$



**Typical reverse drain voltage as function of junction temperature**

$$V_{SD} = f(T_{vj})$$

$$I_{SD} = 7 \text{ A}, V_{GS} = 0 \text{ V}$$

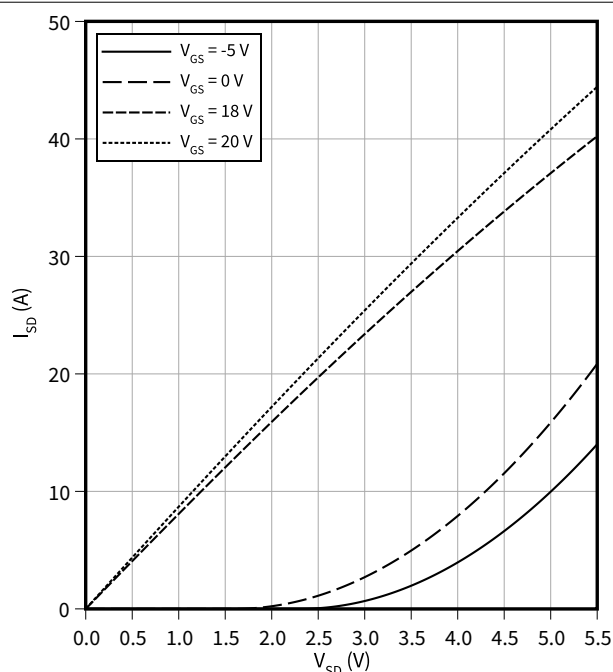


4 Characteristics diagrams

**Typical reverse drain current as function of reverse drain voltage,  $V_{GS}$  as parameter**

$$I_{SD} = f(V_{SD})$$

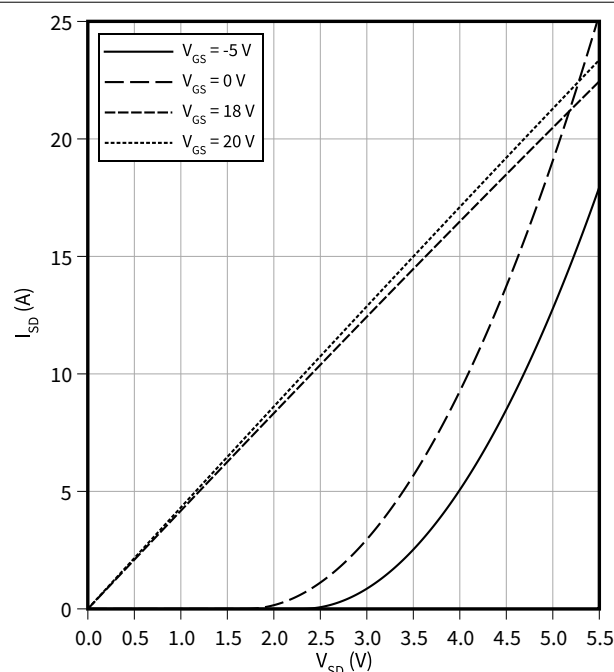
$$T_{vj} = 25\text{ °C}$$



**Typical reverse drain current as function of reverse drain voltage,  $V_{GS}$  as parameter**

$$I_{SD} = f(V_{SD})$$

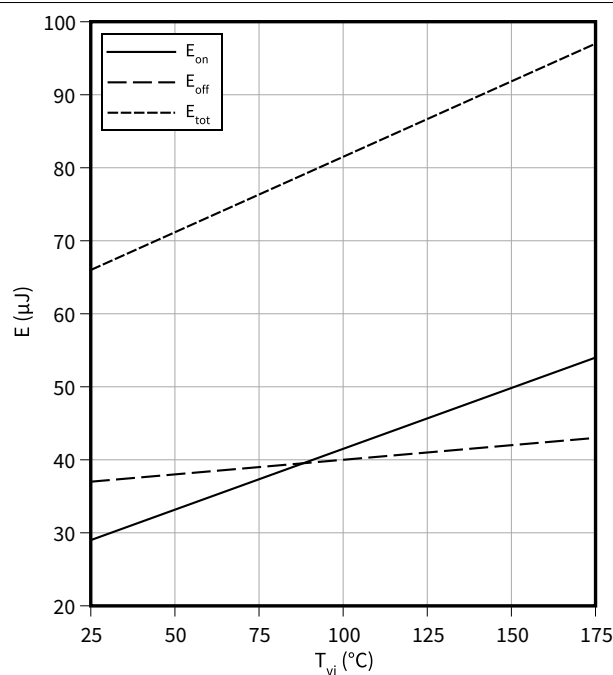
$$T_{vj} = 175\text{ °C}$$



**Typical switching energy as a function of junction temperature, test circuit in Fig. F, 2nd device own body diode:  $V_{GS} = 0\text{ V}$**

$$E = f(T_{vj})$$

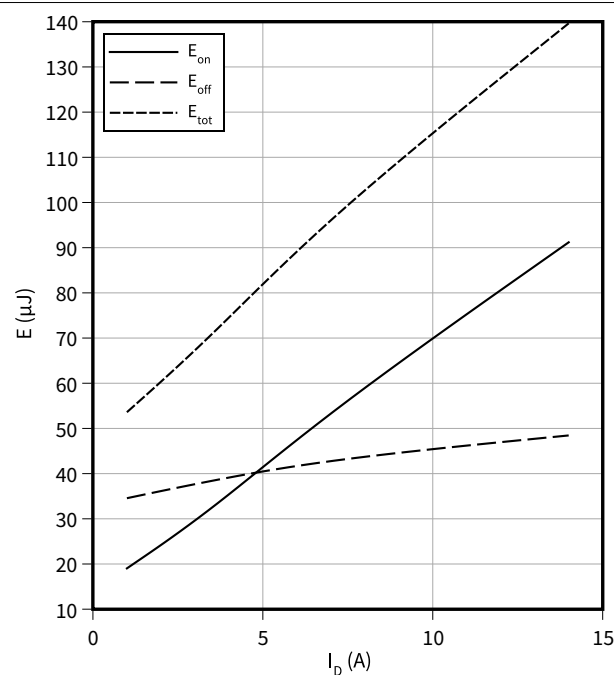
$$V_{GS} = 0/20\text{ V}, I_D = 7\text{ A}, R_{G,ext} = 2\text{ }\Omega, V_{DD} = 800\text{ V}$$



**Typical switching energy as a function of drain current, test circuit in Fig. F, 2nd device own body diode:  $V_{GS} = 0\text{ V}$**

$$E = f(I_D)$$

$$V_{GS} = 0/20\text{ V}, T_{vj} = 175\text{ °C}, R_{G,ext} = 2\text{ }\Omega, V_{DD} = 800\text{ V}$$

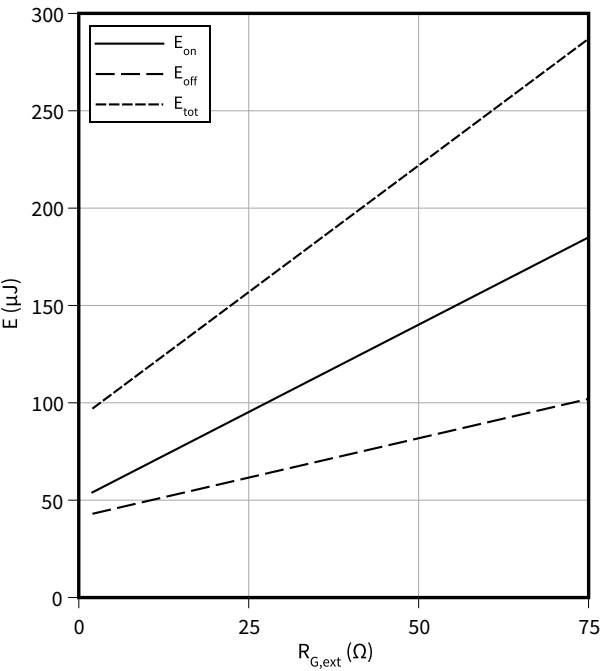


4 Characteristics diagrams

Typical switching energy as a function of gate resistance, test circuit in Fig. F, 2nd device own body diode:  $V_{GS} = 0\text{ V}$

$E = f(R_{G,ext})$

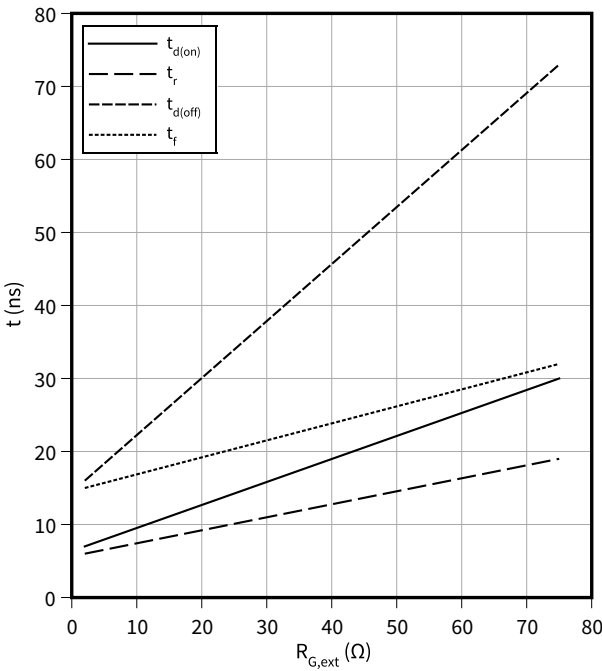
$V_{GS} = 0/20\text{ V}$ ,  $I_D = 7\text{ A}$ ,  $T_{vj} = 175\text{ °C}$ ,  $V_{DD} = 800\text{ V}$



Typical switching times as a function of gate resistance, test circuit in Fig. F, 2nd device own body diode:  $V_{GS} = 0\text{ V}$

$t = f(R_{G,ext})$

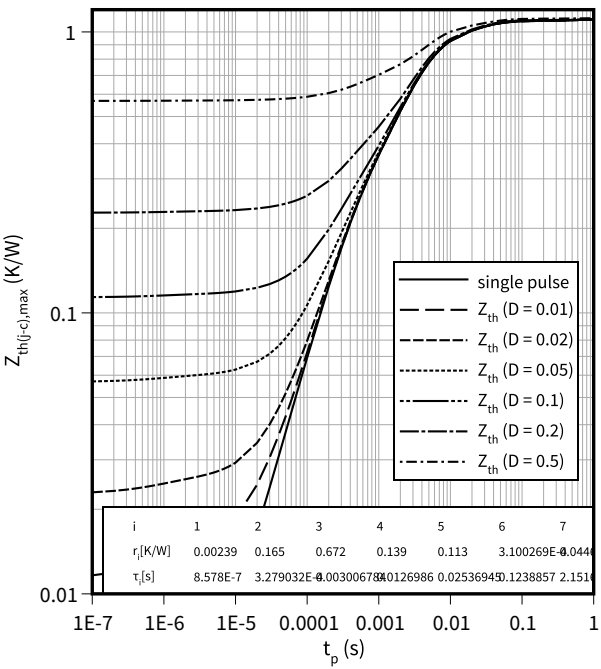
$I_D = 7\text{ A}$ ,  $T_{vj} = 175\text{ °C}$ ,  $V_{DD} = 800\text{ V}$



Max. transient thermal impedance (MOSFET/diode)

$Z_{th(j-c),max} = f(t_p)$

$D = t_p/T$



5 Package outlines

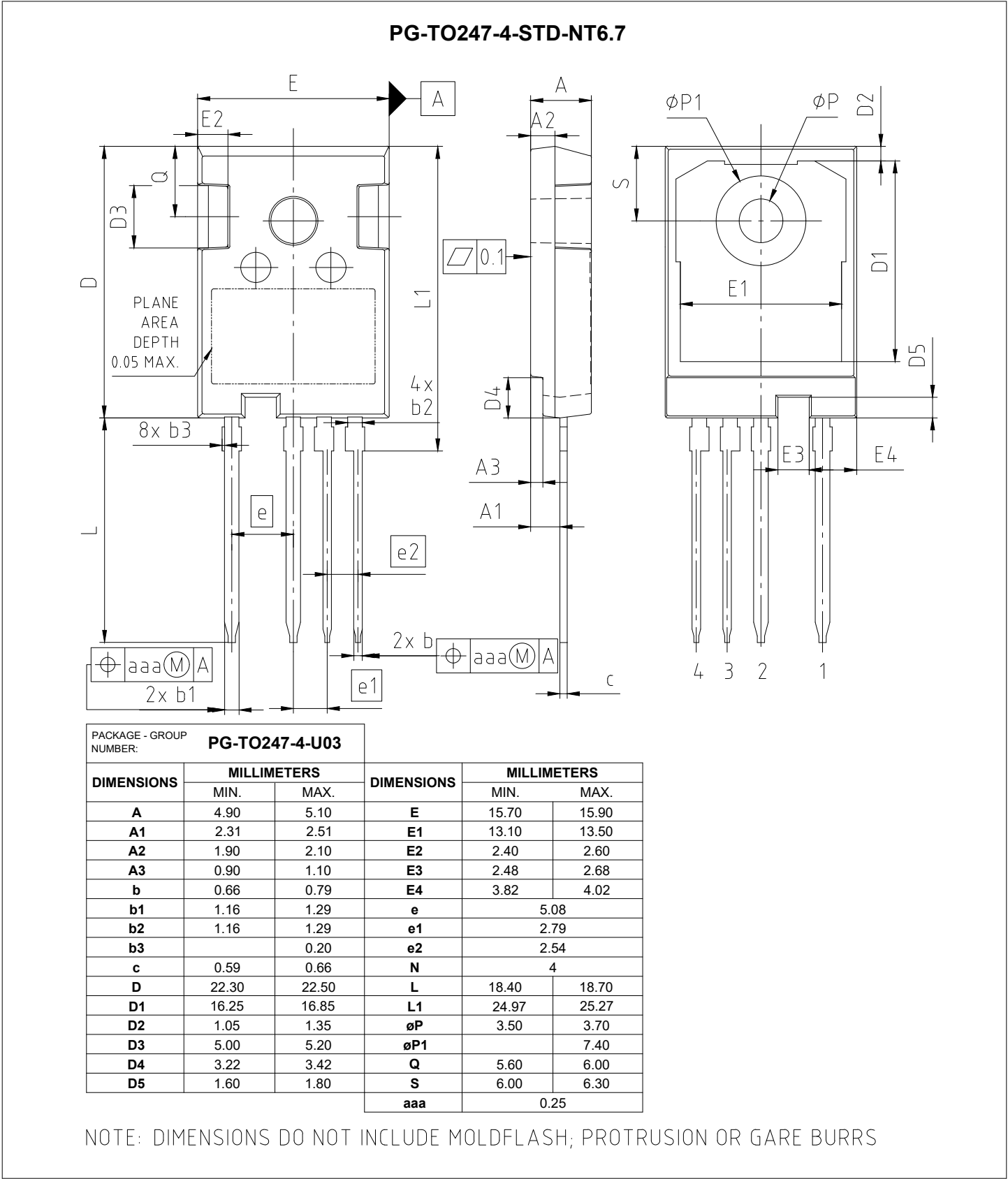


Figure 1

## 6 Testing conditions

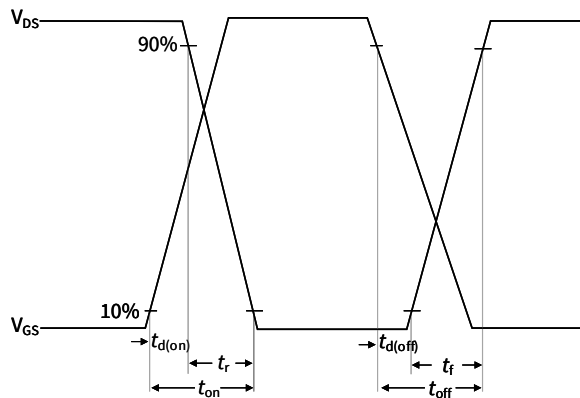


Figure A. Definition of switching times

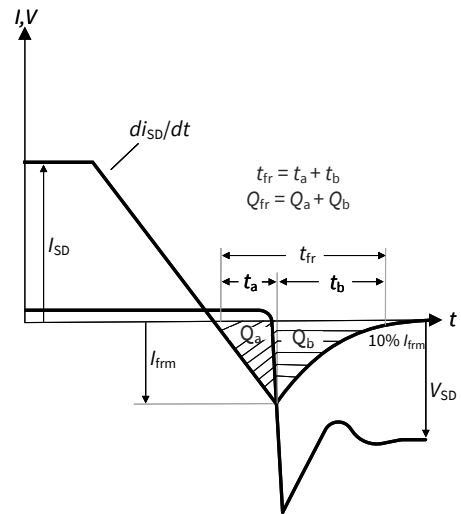


Figure B. Definition of body diode switching characteristics

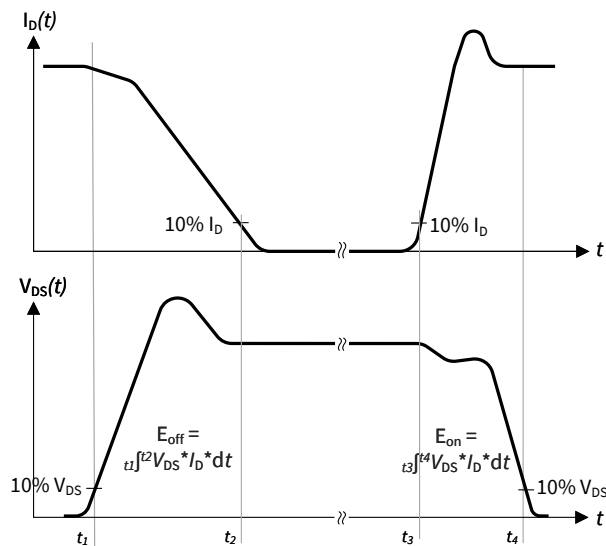


Figure C. Definition of switching losses

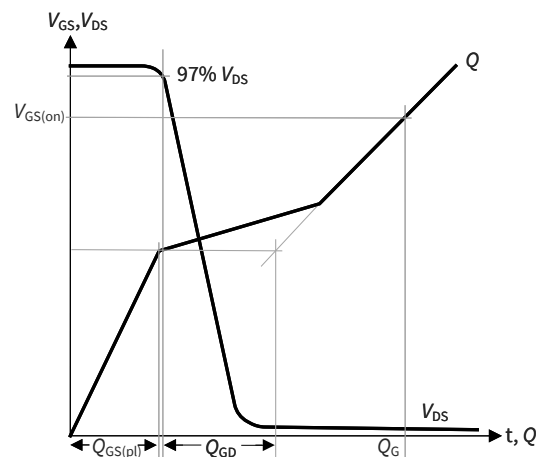


Figure D. Definition of QGD

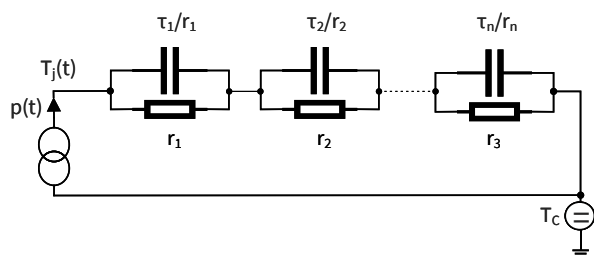


Figure E. Thermal equivalent circuit

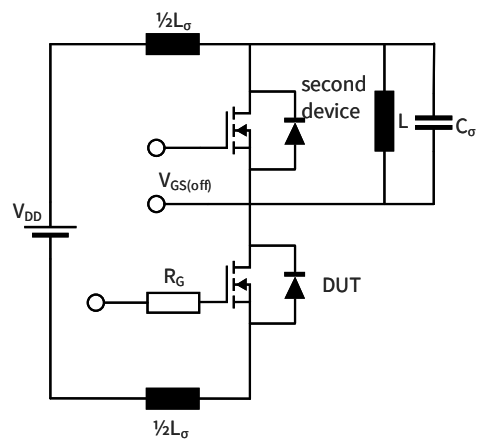


Figure F. Dynamic test circuit

Parasitic inductance  $L_{\sigma}$ ,  
Parasitic capacitor  $C_{\sigma}$ ,

Figure 2

## Revision history

| Document revision | Date of release | Description of changes                                   |
|-------------------|-----------------|----------------------------------------------------------|
| 0.10              | 2022-04-19      | Target datasheet                                         |
| 0.20              | 2023-07-31      | Preliminary datasheet                                    |
| 0.30              | 2023-10-12      | Deleting 'including Efr' from the total switching energy |
| 1.00              | 2023-11-29      | Final datasheet                                          |

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**Email:** [erratum@infineon.com](mailto:erratum@infineon.com)

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