

## Final datasheet

### CoolSiC™ 1200 V SiC Trench MOSFET

#### Features

- $V_{DS} = 1200\text{ V}$  at  $T_{vj} = -55...175^{\circ}\text{C}$
- $I_{DC} = 55\text{ A}$  at  $T_C = 25^{\circ}\text{C}$
- $R_{DS(on)} = 40\text{ m}\Omega$  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

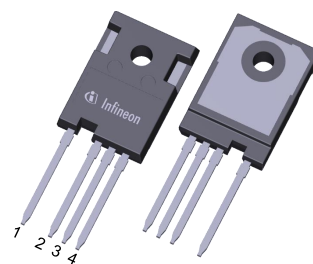
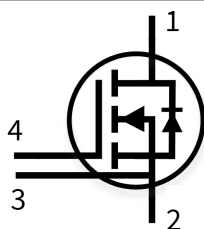
#### Product validation

- 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   |
|------------------|----------------------|-----------|
| AIMZHN120R040M1T | PG-TO247-4-STD-NN6.7 | A12M1N040 |



Table of contents

|   |                                |    |
|---|--------------------------------|----|
|   | Description .....              | 1  |
|   | Features .....                 | 1  |
|   | Potential applications .....   | 1  |
|   | Product validation .....       | 1  |
|   | Table of contents .....        | 2  |
| 1 | Package .....                  | 3  |
| 2 | MOSFET .....                   | 3  |
| 3 | Body diode (MOSFET) .....      | 5  |
| 4 | Characteristics diagrams ..... | 7  |
| 5 | Package outlines .....         | 12 |
| 6 | Testing conditions .....       | 13 |
|   | Revision history .....         | 14 |
|   | Disclaimer .....               | 15 |

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 | $R_{th(j-c)}$ |                        |        | 0.43 | 0.56 | 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 $T_{vj(max)}$ | $I_{DDC}$ | $V_{GS} = 20\text{ V}$                                              | $T_c = 25\text{ °C}$  | 55       | A    |
|                                                                              |           |                                                                     | $T_c = 100\text{ °C}$ | 39       |      |
| Peak drain current, $t_p$ limited by $T_{vj(max)}$                           | $I_{DM}$  | $V_{GS} = 20\text{ V}$                                              |                       | 140      | 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                                               | $E_{AS}$  | $I_D = 15\text{ A}$ , $V_{DD} = 50\text{ V}$ , $L = 2.41\text{ mH}$ |                       | 269      | mJ   |
| Power dissipation, limited by $T_{vj(max)}$                                  | $P_{tot}$ |                                                                     | $T_c = 25\text{ °C}$  | 268      | W    |
|                                                                              |           |                                                                     | $T_c = 100\text{ °C}$ | 134      |      |

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           | $R_{DS(on)}$ | $I_D = 20 \text{ A}$                                                                                                                                                                     | $T_{vj} = 25 \text{ °C}$ ,<br>$V_{GS(on)} = 20 \text{ V}$  |        | 40   | 50   | mΩ   |
|                                            |              |                                                                                                                                                                                          | $T_{vj} = 100 \text{ °C}$ ,<br>$V_{GS(on)} = 20 \text{ V}$ |        | 56   |      |      |
|                                            |              |                                                                                                                                                                                          | $T_{vj} = 175 \text{ °C}$ ,<br>$V_{GS(on)} = 20 \text{ V}$ |        | 80   |      |      |
|                                            |              |                                                                                                                                                                                          | $T_{vj} = 25 \text{ °C}$ ,<br>$V_{GS(on)} = 18 \text{ V}$  |        | 44   |      |      |
| Gate-source threshold voltage              | $V_{GS(th)}$ | $I_D = 6.4 \text{ mA}$ , $V_{DS} = V_{GS}$<br>(tested after 1 ms pulse 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            | $I_{DSS}$    | $V_{DS} = 1200 \text{ V}$ , $V_{GS} = 0 \text{ V}$                                                                                                                                       | $T_{vj} = 25 \text{ °C}$                                   |        | 0.3  | 19   | 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                   | $g_{fs}$     | $I_D = 20 \text{ A}$ , $V_{DS} = 20 \text{ V}$                                                                                                                                           |                                                            |        | 12   |      | S    |
| Short-circuit withstand time <sup>1)</sup> | $t_{SC}$     | $V_{DD} \leq 800 \text{ V}$ ,<br>$V_{DS,peak} \leq 1200 \text{ V}$ ,<br>$T_{vj(start)} = 25 \text{ °C}$ ,<br>$R_{G,ext} = 2 \text{ } \Omega$                                             | $V_{GS(on)} = 20 \text{ V}$                                |        | 1.5  |      | μs   |
|                                            |              |                                                                                                                                                                                          | $V_{GS(on)} = 18 \text{ V}$                                |        | 2    |      |      |
|                                            |              |                                                                                                                                                                                          | $V_{GS(on)} = 15 \text{ V}$                                |        | 2.5  |      |      |
| Internal gate resistance                   | $R_{G,int}$  | $f = 1 \text{ MHz}$ , $V_{AC} = 25 \text{ mV}$                                                                                                                                           |                                                            |        | 3.7  |      | Ω    |
| Input capacitance                          | $C_{iss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                                     |                                                            |        | 1264 |      | pF   |
| Output capacitance                         | $C_{oss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                                     |                                                            |        | 63   |      | pF   |
| Reverse transfer capacitance               | $C_{rss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                                     |                                                            |        | 3.6  |      | pF   |
| $C_{oss}$ stored energy                    | $E_{oss}$    | $V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$                                                                                     |                                                            |        | 40   |      | μJ   |
| Total gate charge                          | $Q_G$        | $V_{DD} = 800 \text{ V}$ , $I_D = 20 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse                                                                                              |                                                            |        | 43   |      | nC   |
| Plateau gate charge                        | $Q_{GS(pl)}$ | $V_{DD} = 800 \text{ V}$ , $I_D = 20 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse                                                                                              |                                                            |        | 12   |      | nC   |
| Gate-to-drain charge                       | $Q_{GD}$     | $V_{DD} = 800 \text{ V}$ , $I_D = 20 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse                                                                                              |                                                            |        | 7    |      | nC   |
| Turn-on delay time                         | $t_{d(on)}$  | $V_{DD} = 800 \text{ V}$ , $I_D = 20 \text{ A}$ ,<br>$V_{GS} = 0/20 \text{ V}$ ,<br>$R_{GS(on)} = 2 \text{ } \Omega$ ,<br>$R_{GS(off)} = 2 \text{ } \Omega$ , $L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ °C}$                                   |        | 10   |      | ns   |
|                                            |              |                                                                                                                                                                                          | $T_{vj} = 175 \text{ °C}$                                  |        | 10   |      |      |

(table continues...)

**Table 4** (continued) Characteristic values

| Parameter                    | Symbol       | Note or test condition                                                                                                                                        | Values                                |      |      | Unit             |
|------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------|------------------|
|                              |              |                                                                                                                                                               | Min.                                  | Typ. | Max. |                  |
| Rise time                    | $t_r$        | $V_{DD} = 800 \text{ V}, I_D = 20 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 7    |      | ns               |
|                              |              |                                                                                                                                                               | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 10   |      |                  |
| Turn-off delay time          | $t_{d(off)}$ | $V_{DD} = 800 \text{ V}, I_D = 20 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 20   |      | ns               |
|                              |              |                                                                                                                                                               | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 22   |      |                  |
| Fall time                    | $t_f$        | $V_{DD} = 800 \text{ V}, I_D = 20 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 8    |      | ns               |
|                              |              |                                                                                                                                                               | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 8    |      |                  |
| Turn-on energy               | $E_{on}$     | $V_{DD} = 800 \text{ V}, I_D = 20 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 112  |      | $\mu\text{J}$    |
|                              |              |                                                                                                                                                               | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 181  |      |                  |
| Turn-off energy              | $E_{off}$    | $V_{DD} = 800 \text{ V}, I_D = 20 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 56   |      | $\mu\text{J}$    |
|                              |              |                                                                                                                                                               | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 64   |      |                  |
| Total switching energy       | $E_{tot}$    | $V_{DD} = 800 \text{ V}, I_D = 20 \text{ A},$<br>$V_{GS} = 0/20 \text{ V},$<br>$R_{GS(on)} = 2 \Omega,$<br>$R_{GS(off)} = 2 \Omega, L_\sigma = 15 \text{ nH}$ | $T_{vj} = 25 \text{ }^\circ\text{C}$  | 168  |      | $\mu\text{J}$    |
|                              |              |                                                                                                                                                               | $T_{vj} = 175 \text{ }^\circ\text{C}$ | 245  |      |                  |
| 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 $T_{vj(max)}$                        | $I_{SM}$  | $V_{GS} = 0 \text{ V}$                      | 45                                 | A    |

**Table 6** Characteristic values

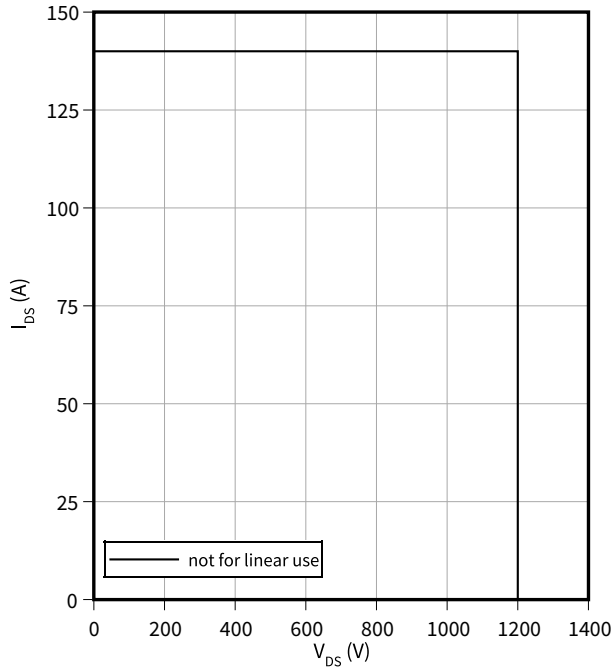
| Parameter                            | Symbol    | Note or test condition                                                                                                                                          |                           | Values |      |      | Unit |
|--------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|------|------|------|
|                                      |           |                                                                                                                                                                 |                           | Min.   | Typ. | Max. |      |
| Drain-source reverse voltage         | $V_{SD}$  | $I_{SD} = 20 \text{ A}$ , $V_{GS} = 0 \text{ V}$                                                                                                                | $T_{vj} = 25 \text{ °C}$  |        | 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>$I_{SD} = 20 \text{ A}$ , $V_{GS} = 0 \text{ V}$ ,<br>$di_{SD}/dt = 3000 \text{ A}/\mu\text{s}$ , $Q_{fr}$<br>includes also $Q_C$ | $T_{vj} = 25 \text{ °C}$  |        | 135  |      | nC   |
|                                      |           |                                                                                                                                                                 | $T_{vj} = 175 \text{ °C}$ |        | 350  |      |      |
| MOSFET peak forward recovery current | $I_{frm}$ | $V_{DD} = 800 \text{ V}$ ,<br>$I_{SD} = 20 \text{ A}$ , $V_{GS} = 0 \text{ V}$ ,<br>$di_{SD}/dt = 3000 \text{ A}/\mu\text{s}$ , $Q_{fr}$<br>includes also $Q_C$ | $T_{vj} = 25 \text{ °C}$  |        | 9    |      | A    |
|                                      |           |                                                                                                                                                                 | $T_{vj} = 175 \text{ °C}$ |        | 17   |      |      |
| Virtual junction temperature         | $T_{vj}$  |                                                                                                                                                                 |                           | -55    |      | 175  | °C   |

## 4 Characteristics diagrams

### Reverse bias safe operating area (RBSOA)

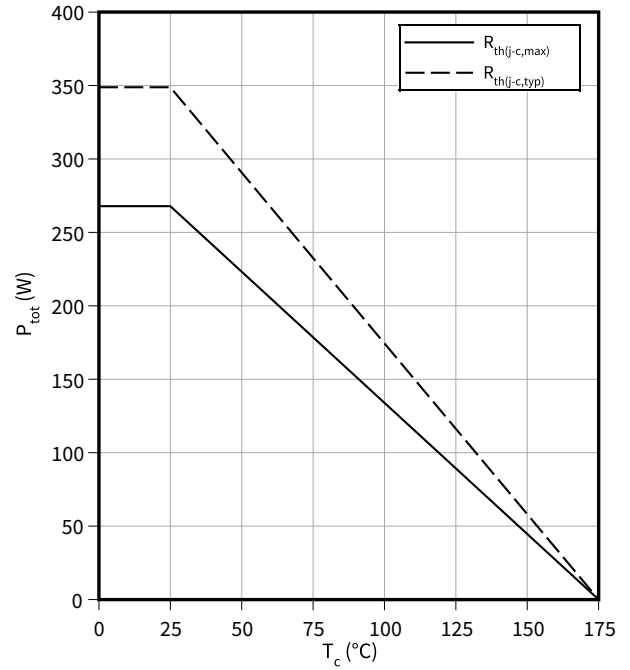
$$I_{DS} = f(V_{DS})$$

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



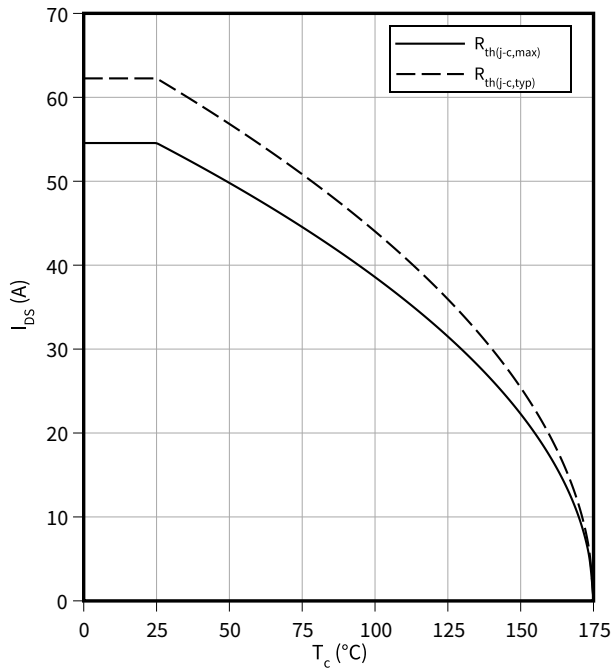
### Power dissipation as a function of case temperature

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



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

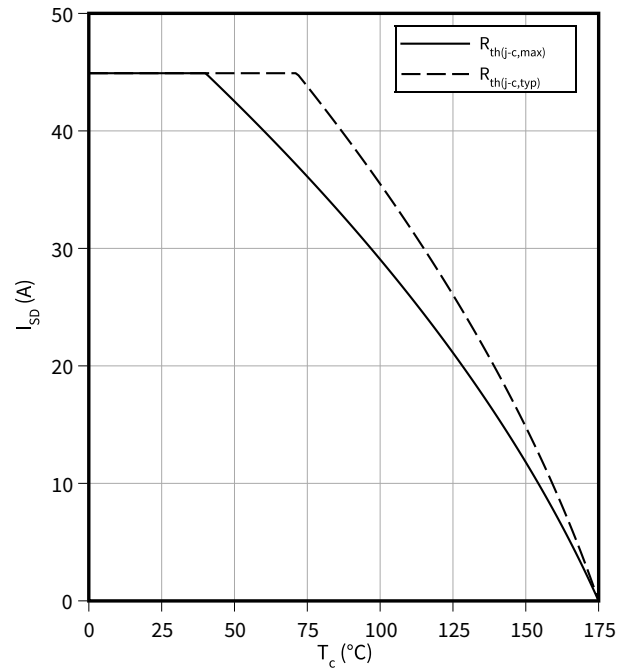
$$I_{DS} = f(T_c)$$



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

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

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

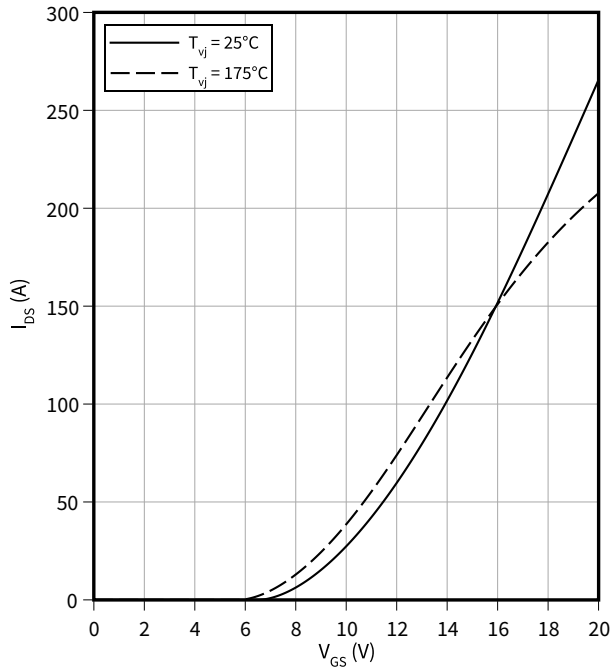


**4 Characteristics diagrams**

**Typical transfer characteristic**

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

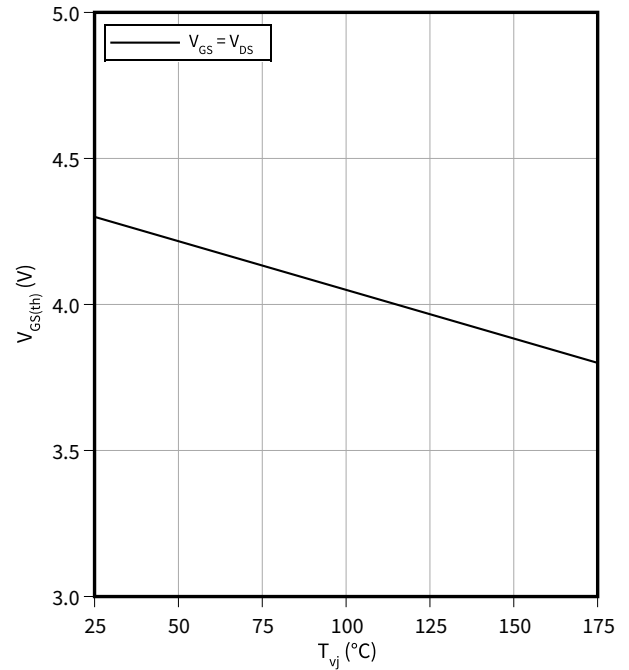
$$V_{DS} = 20 \text{ V}$$



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

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

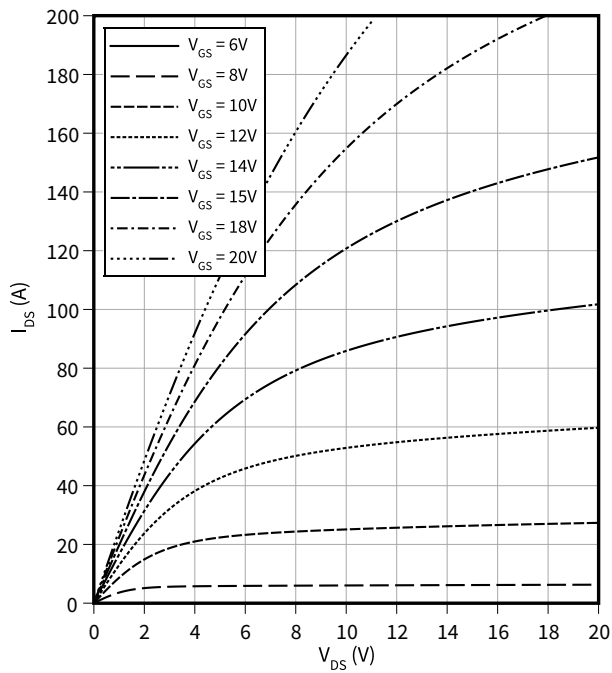
$$I_D = 6.4 \text{ mA}$$



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

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

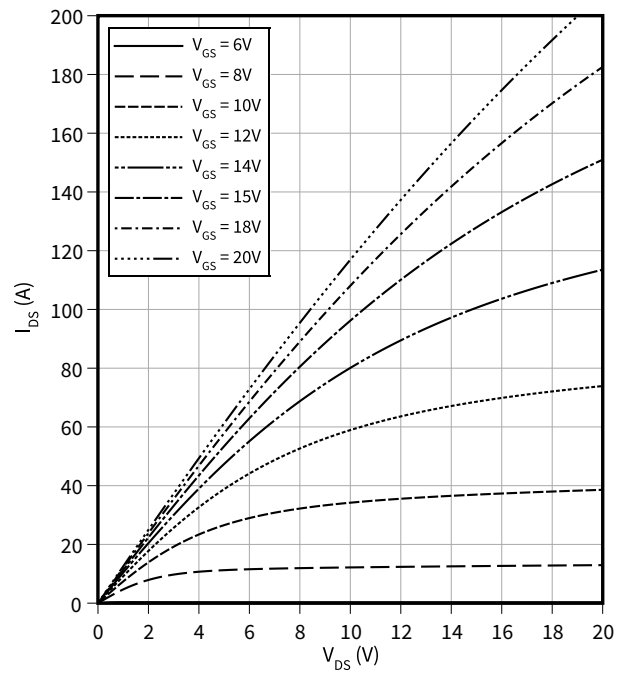
$$T_{vj} = 25^\circ\text{C}$$



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

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

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



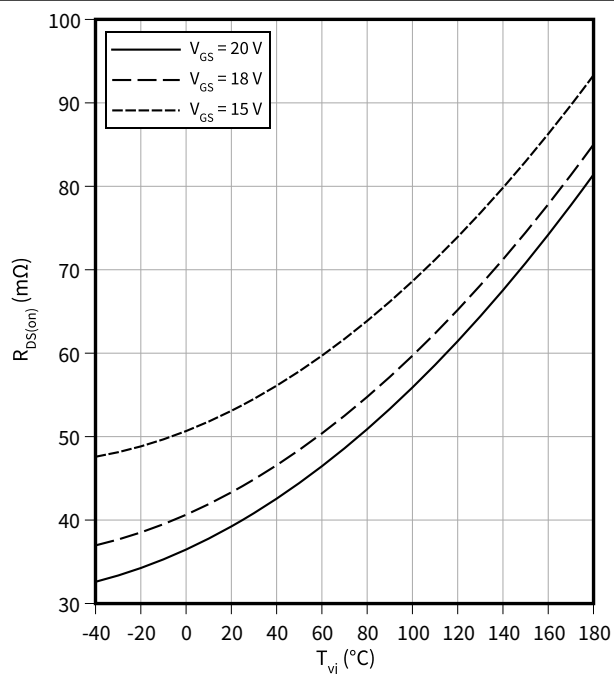


**4 Characteristics diagrams**

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

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

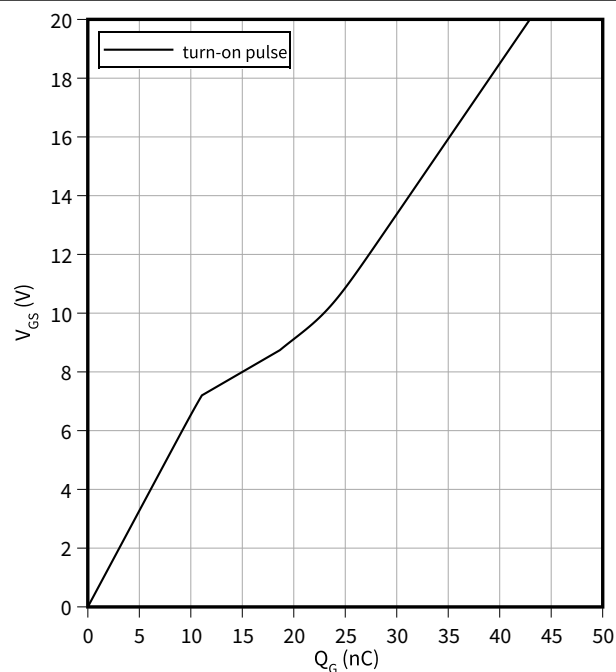
$$I_D = 20 \text{ A}$$



**Typical gate charge**

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

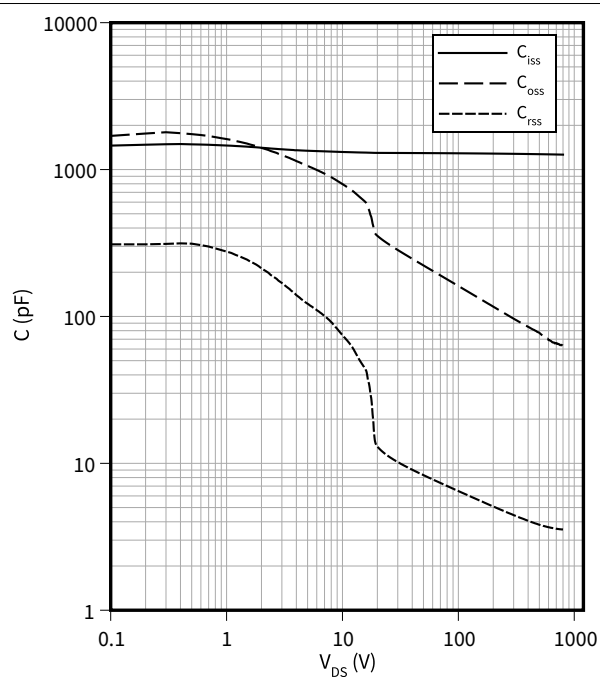
$$I_D = 20 \text{ A}, V_{DS} = 800 \text{ V}$$



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

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

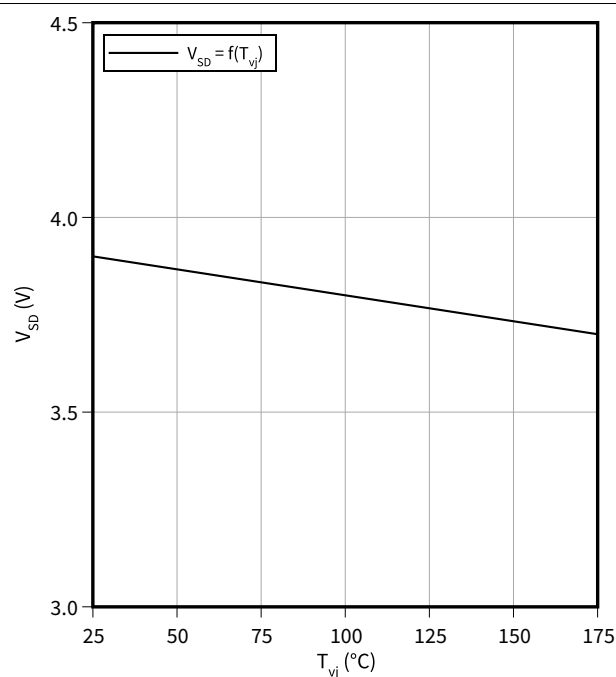
$$f = 100 \text{ kHz}, V_{GS} = 0 \text{ V}$$



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

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

$$I_{SD} = 20 \text{ A}, V_{GS} = 0 \text{ V}$$

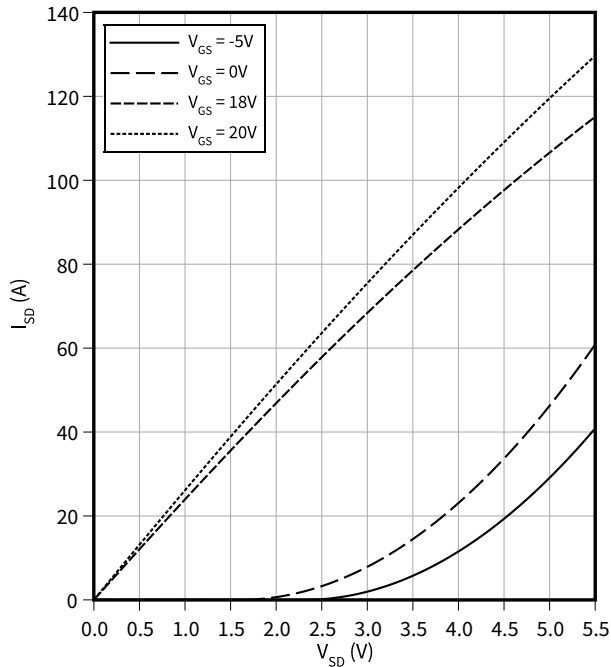


4 Characteristics diagrams

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

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

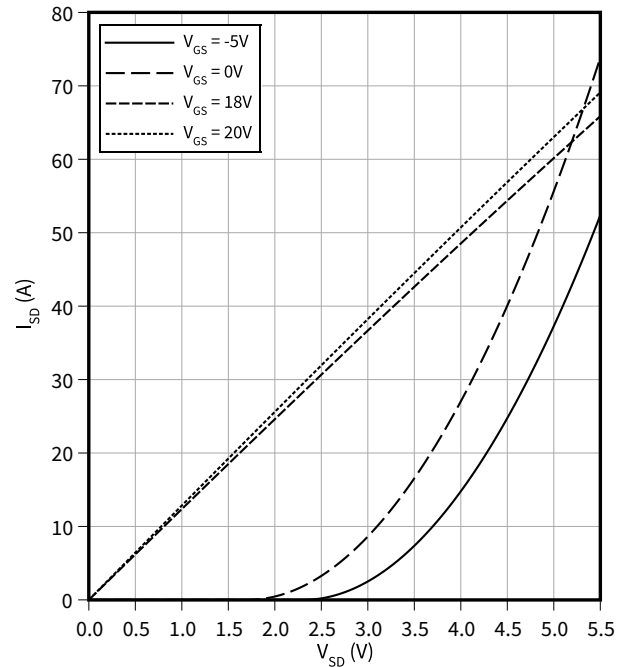
$$T_{vj} = 25\text{ °C}$$



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

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

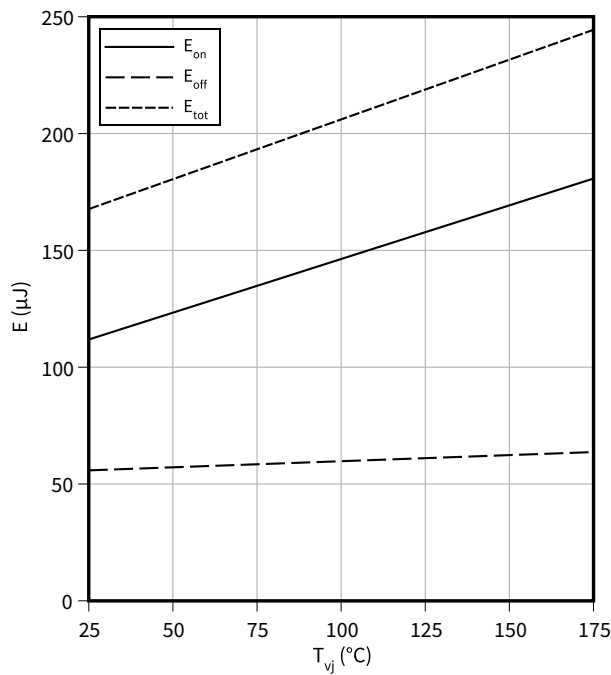
$$T_{vj} = 175\text{ °C}$$



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

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

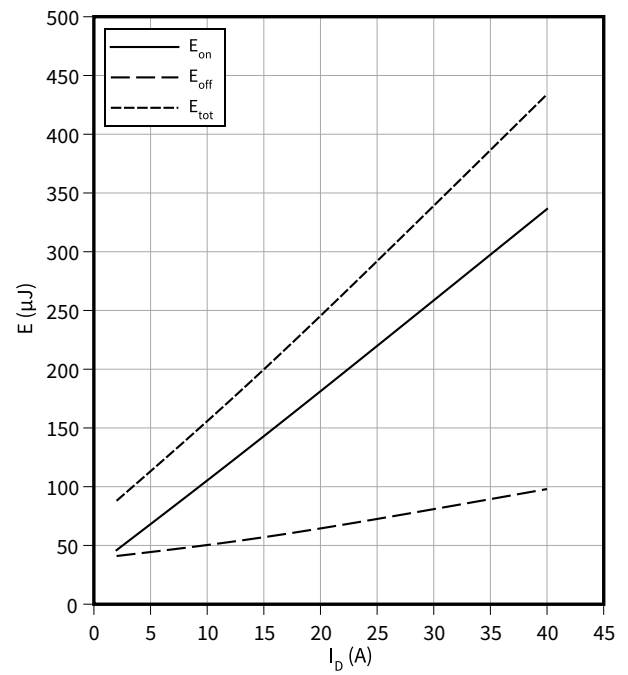
$$V_{GS} = 0/20\text{ V}, I_D = 20\text{ A}, R_{G,ext} = 2\text{ }\Omega, V_{DD} = 800\text{ V}$$



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

$$E = f(I_D)$$

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

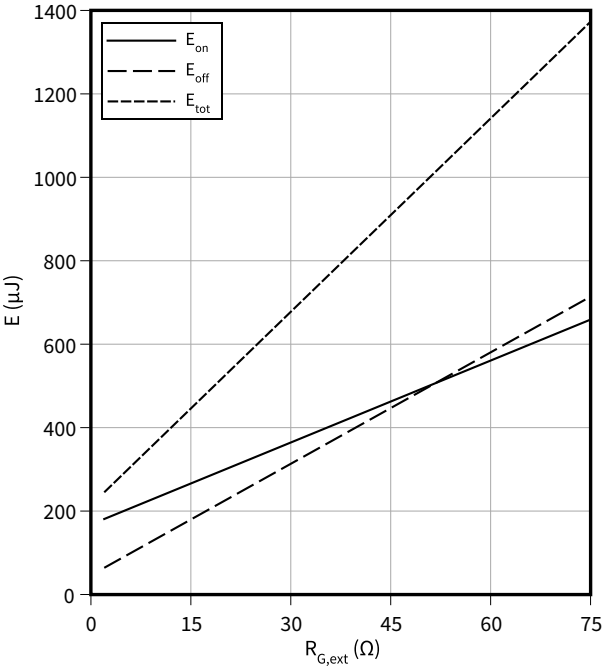


4 Characteristics diagrams

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

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

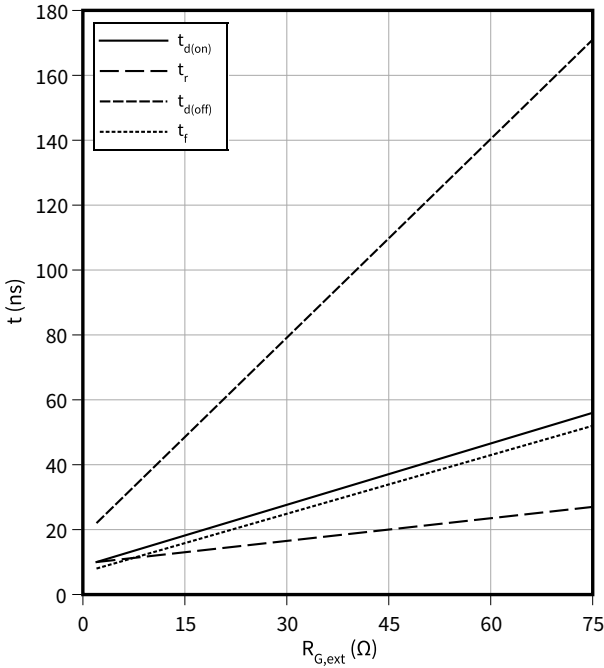
$V_{GS} = 0/20\text{ V}$ ,  $I_D = 20\text{ A}$ ,  $T_{vj} = 175\text{ °C}$ ,  $V_{DD} = 800\text{ V}$



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

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

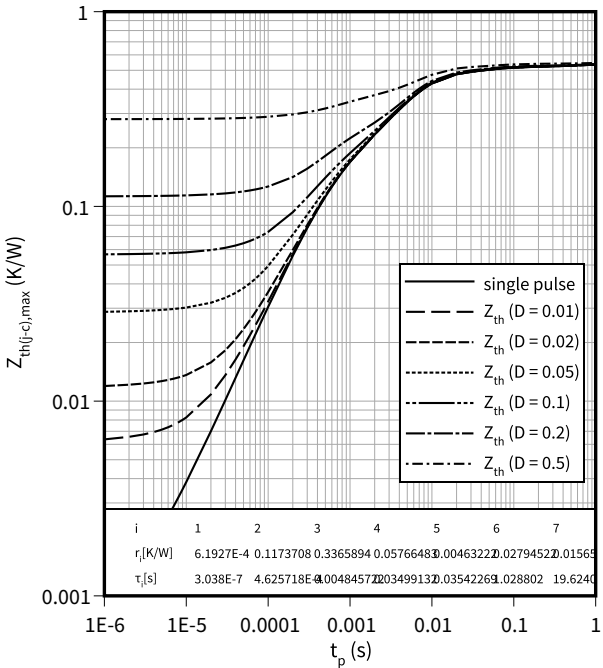
$V_{GS} = 0/20\text{ V}$ ,  $I_D = 20\text{ A}$ ,  $T_{vj} = 175\text{ °C}$ ,  $V_{DD} = 800\text{ V}$



**Max. transient thermal impedance (MOSFET/diode)**

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

$D = t_p/T$



5 Package outlines

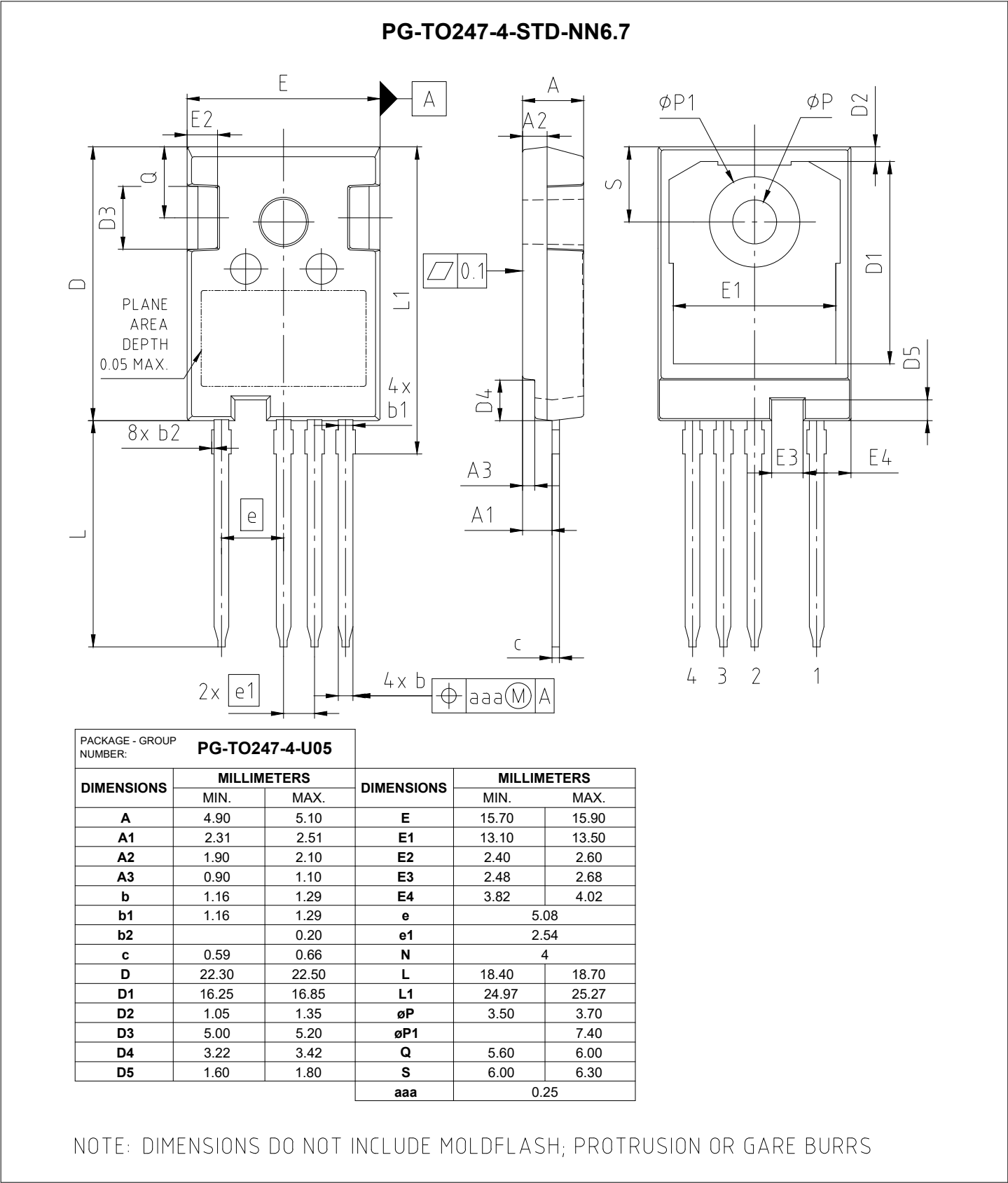


Figure 1

## 6 Testing conditions

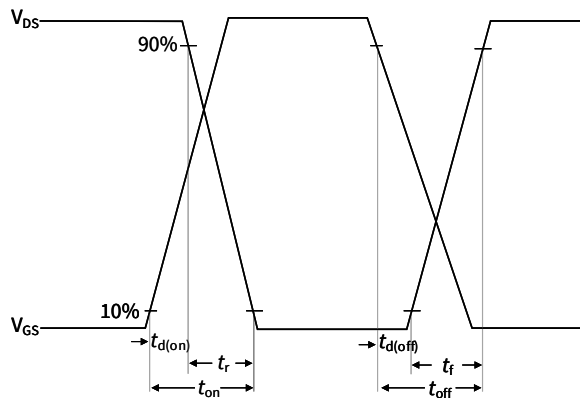


Figure A. Definition of switching times

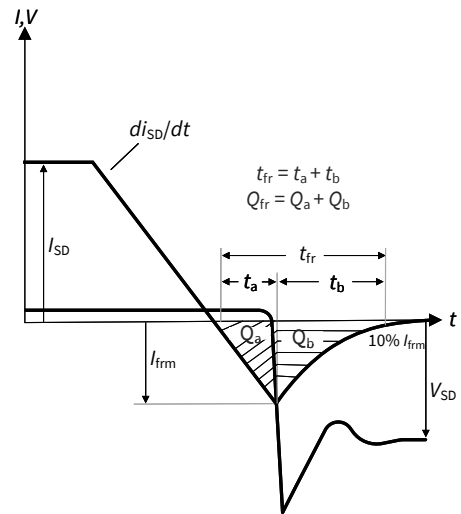


Figure B. Definition of body diode switching characteristics

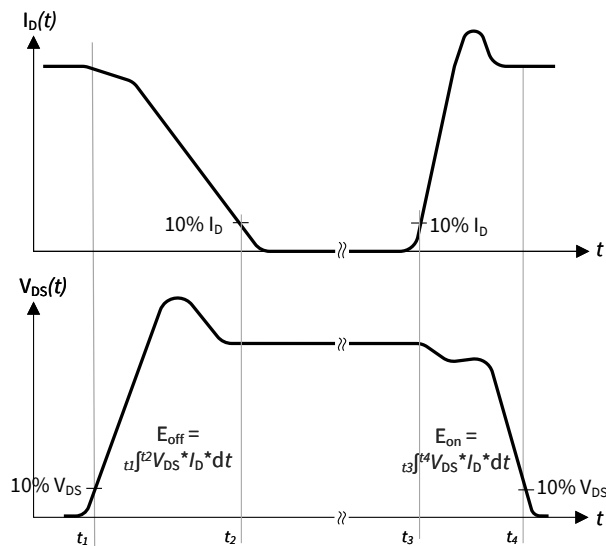


Figure C. Definition of switching losses

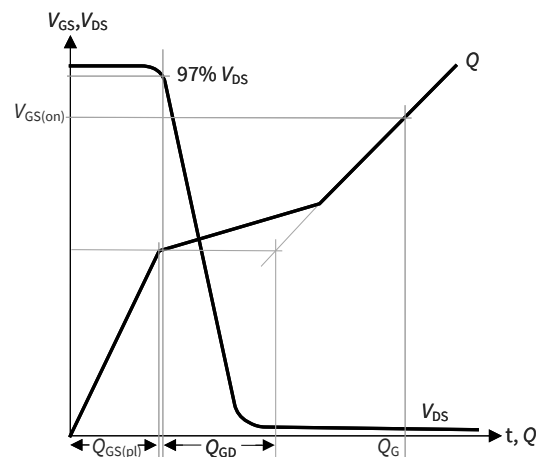


Figure D. Definition of  $Q_{GD}$

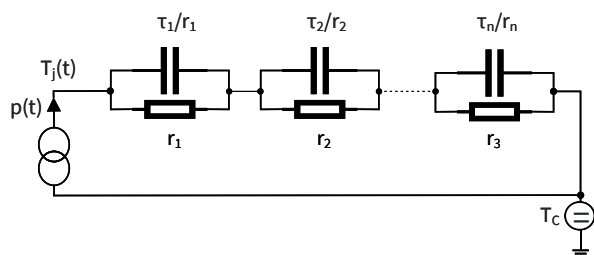


Figure E. Thermal equivalent circuit

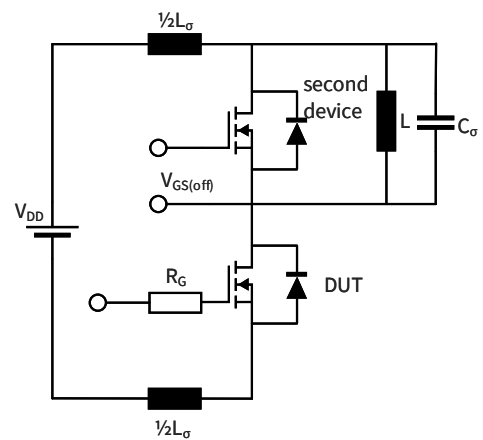


Figure F. Dynamic test circuit

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              | 2023-08-03      | Preliminary datasheet  |
| 1.00              | 2023-11-30      | Final datasheet        |

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**Edition 2023-11-30**

**Published by**

**Infineon Technologies AG**  
**81726 Munich, Germany**

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**Document reference**  
**IFX-ABE579-003**

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