

## SiC MOSFET

### CoolSiC™ Automotive Power Device 750 V G2

Built on Infineon's robust 2<sup>nd</sup> generation Silicon Carbide trench technology, the 750 V CoolSiC™ MOSFET delivers unparalleled performance, superior reliability, and great ease of use. It enables cost effective, highly efficient, and simplified designs to fulfill the ever-growing system and market needs.

## Features

- Highly robust 750V technology, 100% avalanche tested
- Best-in-class  $R_{DS(on)} \times Q_{fr}$
- Excellent  $R_{DS(on)} \times Q_{oss}$  and  $R_{DS(on)} \times Q_G$
- Unique combination of low  $C_{rss}/C_{iss}$  and high  $V_{GS(th)}$
- Infineon proprietary die attach technology
- Cutting edge TSC package with material group I
- Driver source pin available

## Benefits

- Enhanced robustness and reliability for bus voltages beyond 500 V
- Superior efficiency in hard switching
- Higher switching frequency in soft switching topologies
- Robustness against parasitic turn on for unipolar gate driving
- Best-in-class thermal dissipation
- Reduced switching losses through improved gate control

## Potential applications

- Uni- and bidirectional On Board Chargers and HV-LV DCDC converters (hard switching half bridges and soft switching topologies)
- Circuit breakers (HV battery disconnect switch, DC and AC low frequency switch, HV E-fuse)
- Auxiliary drives

## Product validation

Qualified according to Automotive applications.  
Product validation according to AEC-Q101.

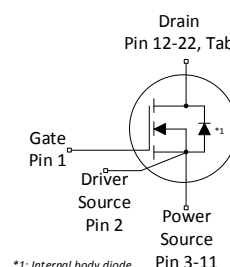
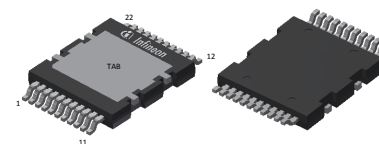
*Please note: The source and driver source pins are not exchangeable. Their exchange might lead to malfunction. When paralleling MOSFETs the placement of the gate resistor is generally recommended to be in series to the Driver Source instead of the Gate.*

**Table 1 Key performance parameters**

| Parameter                         | Value | Unit |
|-----------------------------------|-------|------|
| $V_{DSS}$ over full $T_{j,range}$ | 750   | V    |
| $R_{DS(on),typ}$                  | 20    | mΩ   |
| $R_{DS(on),max}$                  | 25    | mΩ   |
| $Q_{G,typ}$                       | 59    | nC   |
| $I_{D,pulse}$                     | 296   | A    |
| $Q_{oss,typ}$ @ 500 V             | 128   | nC   |
| $E_{oss,typ}$ @ 500 V             | 22.2  | μJ   |

| Part number    | Package     | Marking  | Related links  |
|----------------|-------------|----------|----------------|
| AIMDQ75R020M2H | PG-HDSOP-22 | 75A020M2 | see Appendix A |

Q-DPAK



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## 1 Maximum ratings

at  $T_j = 25^\circ\text{C}$ , unless otherwise specified.

Note: for optimum lifetime and reliability, Infineon recommends operating conditions that do not exceed 80% of the maximum ratings stated in this datasheet.

For applications with applied blocking voltage > 525 V, it is required that the customer evaluates the impact of cosmic radiation effect in early design phase and contacts the Infineon sales office for the necessary technical support.

“Linear mode” operation is not recommended. For assessment of potential “linear mode” operation, please contact Infineon sales office.

**Table 2 Maximum ratings**

| Parameter                                             | Symbol           | Values |      |      | Unit             | Note / Test condition                                                         |
|-------------------------------------------------------|------------------|--------|------|------|------------------|-------------------------------------------------------------------------------|
|                                                       |                  | Min.   | Typ. | Max. |                  |                                                                               |
| Drain-source voltage                                  | $V_{\text{DSS}}$ | -      | -    | 750  | V                | static, $T_j = -55^\circ\text{C}$ to $175^\circ\text{C}$                      |
| Continuous DC drain current <sup>1)</sup>             | $I_{\text{DDC}}$ | -      | -    | 86   | A                | $T_c = 25^\circ\text{C}$                                                      |
|                                                       |                  |        |      | 61   |                  | $T_c = 100^\circ\text{C}$                                                     |
| Peak drain current <sup>2)</sup>                      | $I_{\text{DM}}$  | -      | -    | 296  | A                | $T_c = 25^\circ\text{C}$ , $V_{\text{GS}} = 18\text{ V}$                      |
| Avalanche energy, single pulse                        | $E_{\text{AS}}$  | -      | -    | 281  | mJ               | $I_{\text{D}} = 10.5\text{ A}$ , $V_{\text{DD}} = 50\text{ V}$ ; see table 11 |
| Avalanche current, single pulse                       | $I_{\text{AS}}$  | -      | -    | 10.5 | A                | -                                                                             |
| MOSFET $dv/dt$ ruggedness                             | $dv/dt$          | -      | -    | 200  | V/ns             | $V_{\text{DS}} = 0 \dots 500\text{ V}$                                        |
| Gate source voltage (static) <sup>3)</sup>            | $V_{\text{GS}}$  | -7     | -    | 23   | V                | -                                                                             |
| Gate source voltage (transient)                       | $V_{\text{GS}}$  | -11    | -    | 25   | V                | $t_p \leq 500\text{ ns}$ , duty cycle $\leq 1\%$                              |
| Power dissipation                                     | $P_{\text{tot}}$ | -      | -    | 340  | W                | $T_c = 25^\circ\text{C}$                                                      |
| Storage temperature                                   | $T_{\text{stg}}$ | -55    | -    | 150  | $^\circ\text{C}$ | -                                                                             |
| Operating junction temperature                        | $T_j$            |        |      | 175  |                  |                                                                               |
| Extended operating junction temperature <sup>4)</sup> | $T_j$            | -      | -    | 200  | $^\circ\text{C}$ | $\leq 100\text{ h}$ in the application lifetime                               |
| Mounting torque                                       | -                | -      | -    | n.a. | Ncm              | -                                                                             |
| Continuous reverse drain current <sup>1)</sup>        | $I_{\text{SDC}}$ | -      | -    | 86   | A                | $V_{\text{GS}} = 18\text{ V}$ , $T_c = 25^\circ\text{C}$                      |
|                                                       |                  |        |      | 56   |                  | $V_{\text{GS}} = 0\text{ V}$ , $T_c = 25^\circ\text{C}$                       |
| Peak reverse drain current <sup>2)</sup>              | $I_{\text{SM}}$  | -      | -    | 296  | A                | $T_c = 25^\circ\text{C}$ , $t_p \leq 250\text{ ns}$                           |
|                                                       |                  |        |      | 84   |                  | $T_c = 25^\circ\text{C}$                                                      |
| Insulation withstand voltage                          | $V_{\text{ISO}}$ | -      | -    | n.a. | V                | $V_{\text{rms}}$ , $T_c = 25^\circ\text{C}$ , $t = 1\text{ min}$              |

<sup>1)</sup> Limited by  $T_{j,\text{max}}$ .

<sup>2)</sup> Pulse width  $t_{\text{pulse}}$  limited by  $T_{j,\text{max}}$ .

<sup>3)</sup> The maximum gate-source voltage in the application design should be in accordance to IPC-9592B.

<sup>4)</sup> Up to 7500 temperature cycles, where maximum delta  $T$  is limited to 100K.

## 2 Thermal characteristics

**Table 3 Thermal characteristics**

| Parameter                                       | Symbol        | Values |      |      | Unit | Note / Test condition                                                                                    |
|-------------------------------------------------|---------------|--------|------|------|------|----------------------------------------------------------------------------------------------------------|
|                                                 |               | Min.   | Typ. | Max. |      |                                                                                                          |
| Thermal resistance, junction - case             | $R_{th(j-c)}$ | -      | 0.32 | 0.44 | °C/W | Not subject to production test.<br>Parameter verified by design/characterization according to JESD51-14. |
| Soldering temperature, reflow soldering allowed | $T_{sold}$    | -      | -    | 260  | °C   | reflow MSL1                                                                                              |

### 3 Operating range

**Table 4**    **Operating range**

| Parameter                    | Symbol        | Values |      |      | Unit | Note / Test condition |
|------------------------------|---------------|--------|------|------|------|-----------------------|
|                              |               | Min.   | Typ. | Max. |      |                       |
| Recommended turn-on voltage  | $V_{GS(on)}$  | -      | 18   | -    | V    | -                     |
| Recommended turn-off voltage | $V_{GS(off)}$ |        | 0    |      |      |                       |

## 4 Electrical characteristics

at  $T_j = 25^\circ\text{C}$ , unless otherwise specified

**Table 5 Static characteristics**

| Parameter                                    | Symbol        | Values |      |      | Unit          | Note / Test condition                                                                                                 |
|----------------------------------------------|---------------|--------|------|------|---------------|-----------------------------------------------------------------------------------------------------------------------|
|                                              |               | Min.   | Typ. | Max. |               |                                                                                                                       |
| Drain-source breakdown voltage <sup>5)</sup> | $V_{(BR)DSS}$ | 840    | -    | -    | V             | $V_{GS} = 0\text{ V}$ , $I_D = 0.98\text{ mA}$                                                                        |
| Gate threshold voltage <sup>6)</sup>         | $V_{GS(th)}$  | 3.5    | 4.5  | 5.6  | V             | $V_{DS} = V_{GS}$ , $I_D = 9.8\text{ mA}$ , $T_j = 25^\circ\text{C}$                                                  |
|                                              |               | -      | 3.3  | -    |               | $V_{DS} = V_{GS}$ , $I_D = 9.8\text{ mA}$ , $T_j = 175^\circ\text{C}$                                                 |
| Zero gate voltage drain current              | $I_{DSS}$     | -      | 1    | 75   | $\mu\text{A}$ | $V_{DS} = 750\text{ V}$ , $V_{GS} = 0\text{ V}$ , $T_j = 25^\circ\text{C}$                                            |
|                                              |               |        | 10   | -    |               | $V_{DS} = 750\text{ V}$ , $V_{GS} = 0\text{ V}$ , $T_j = 175^\circ\text{C}$                                           |
| Gate-source leakage current                  | $I_{GSS}$     | -      | -    | 100  | nA            | $V_{GS} = 23\text{ V}$ , $V_{DS} = 0\text{ V}$ , $T_j = 25^\circ\text{C}$                                             |
|                                              |               |        |      | -100 |               | $V_{GS} = -7\text{ V}$ , $V_{DS} = 0\text{ V}$ , $T_j = 25^\circ\text{C}$                                             |
| Forward transconductance                     | $g_{fs}$      | -      | 27   | -    | S             | $I_D = 44.7\text{ A}$ , $V_{DS} = 20\text{ V}$                                                                        |
| Drain-source on-state resistance             | $R_{DS(on)}$  | -      | 26.0 | -    | m $\Omega$    | $V_{GS} = 15\text{ V}$ , $I_D = 44.7\text{ A}$ , $T_j = 25^\circ\text{C}$                                             |
|                                              |               |        | 20.0 | 25.0 |               | $V_{GS} = 18\text{ V}$ , $I_D = 44.7\text{ A}$ , $T_j = 25^\circ\text{C}$                                             |
|                                              |               |        | 18.0 | -    |               | $V_{GS} = 20\text{ V}$ , $I_D = 44.7\text{ A}$ , $T_j = 25^\circ\text{C}$                                             |
|                                              |               |        | 31.8 | 40.0 |               | $V_{GS} = 18\text{ V}$ , $I_D = 44.7\text{ A}$ , $T_j = 150^\circ\text{C}$                                            |
|                                              |               |        | 36.0 | -    |               | $V_{GS} = 18\text{ V}$ , $I_D = 44.7\text{ A}$ , $T_j = 175^\circ\text{C}$                                            |
| Short-circuit withstand time <sup>7)</sup>   | $t_{SC}$      | -      | 2.0  | -    | $\mu\text{s}$ | $V_{DD} = 500\text{ V}$ , $V_{GS} = 18\text{ V}$ ,<br>$V_{DS(peak)} < 750\text{ V}$ , $R_{G,ext} = 2.3\text{ }\Omega$ |
| Internal gate resistance                     | $R_{G,int}$   | -      | 2.0  | -    | $\Omega$      | $f = 1\text{ MHz}$                                                                                                    |

<sup>5)</sup> Provided as measure of robustness under abnormal operating conditions and not recommended for normal operation.

<sup>6)</sup> Tested after pre-conditioning pulse at  $V_{GS} = +20\text{ V}$ . "Linear mode" operation is not recommended. For assessment of potential "linear mode" operation, please contact Infineon sales office.

<sup>7)</sup> Specified by design, not subject to production test.

**Table 6 Dynamic characteristics**

External parasitic elements (PCB layout) influence switching behavior significantly.

Stray inductances and coupling capacitances must be minimized.

For layout recommendations please use provided application notes or contact Infineon sales office.

| Parameter                                                  | Symbol      | Values |      |      | Unit | Note / Test condition                                                  |
|------------------------------------------------------------|-------------|--------|------|------|------|------------------------------------------------------------------------|
|                                                            |             | Min.   | Typ. | Max. |      |                                                                        |
| Input capacitance                                          | $C_{iss}$   | -      | 2085 | -    | pF   | $V_{GS} = 0\text{ V}$ , $V_{DS} = 500\text{ V}$ , $f = 250\text{ kHz}$ |
| Reverse transfer capacitance                               | $C_{rss}$   |        | 10.9 | -    |      |                                                                        |
| Output capacitance <sup>8)</sup>                           | $C_{oss}$   |        | 141  | 183  |      |                                                                        |
| Output charge <sup>8)</sup>                                | $Q_{oss}$   | -      | 128  | 166  | nC   | calculation based on $C_{oss}$                                         |
| Effective output capacitance, energy related <sup>9)</sup> | $C_{o(er)}$ | -      | 178  | -    | pF   | $V_{GS} = 0\text{ V}$ ,<br>$V_{DS} = 0 \dots 500\text{ V}$             |

**Table 6 Dynamic characteristics**

External parasitic elements (PCB layout) influence switching behavior significantly.  
Stray inductances and coupling capacitances must be minimized.  
For layout recommendations please use provided application notes or contact Infineon sales office.

| Parameter                                                 | Symbol       | Values |      |      | Unit | Note / Test condition                                                                                                                            |
|-----------------------------------------------------------|--------------|--------|------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           |              | Min.   | Typ. | Max. |      |                                                                                                                                                  |
| Effective output capacitance, time related <sup>10)</sup> | $C_{o(tr)}$  | -      | 256  | -    | pF   | $I_D = \text{constant}, V_{GS} = 0 \text{ V}, V_{DS} = 0 \dots 500 \text{ V}$                                                                    |
| Turn-on delay time                                        | $t_{d(on)}$  | -      | 11   | -    | ns   | $V_{DD} = 500 \text{ V}, V_{GS} = 0/18 \text{ V}, I_D = 44.7 \text{ A}, R_{G,ext} = 1.8 \Omega, L_{stray} = 15 \text{ nH}; \text{ see table 10}$ |
| Rise time                                                 | $t_r$        |        | 10   |      | ns   |                                                                                                                                                  |
| Turn-off delay time                                       | $t_{d(off)}$ |        | 22   |      | ns   |                                                                                                                                                  |
| Fall time                                                 | $t_f$        |        | 7    |      | ns   |                                                                                                                                                  |
| Turn-ON switching losses <sup>11)</sup>                   | $E_{on}$     |        | 70   |      | μJ   |                                                                                                                                                  |
| Turn-OFF switching losses <sup>11)</sup>                  | $E_{off}$    |        | 44   |      | μJ   |                                                                                                                                                  |
| Total switching losses <sup>11)</sup>                     | $E_{tot}$    |        | 114  |      | μJ   |                                                                                                                                                  |

8) Maximum specification is defined by calculated six sigma upper confidence bound.

9)  $C_{o(er)}$  is a fixed capacitance that gives the same stored energy as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 500 V.

10)  $C_{o(tr)}$  is a fixed capacitance that gives the same charging time as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 500 V.

11) MOSFET used in half-bridge configuration without external diode. Parameter verified by characterization according to IEC 60747-8.

**Table 7 Gate charge characteristics**

| Parameter                     | Symbol       | Values |      |      | Unit | Note / Test condition                                                               |
|-------------------------------|--------------|--------|------|------|------|-------------------------------------------------------------------------------------|
|                               |              | Min.   | Typ. | Max. |      |                                                                                     |
| Plateau gate to source charge | $Q_{GS(pl)}$ | -      | 15   | -    | nC   | $V_{DD} = 500 \text{ V}, I_D = 44.7 \text{ A}, V_{GS} = 0 \text{ to } 18 \text{ V}$ |
| Gate to drain charge          | $Q_{GD}$     |        | 13   |      |      |                                                                                     |
| Total gate charge             | $Q_G$        |        | 59   |      |      |                                                                                     |

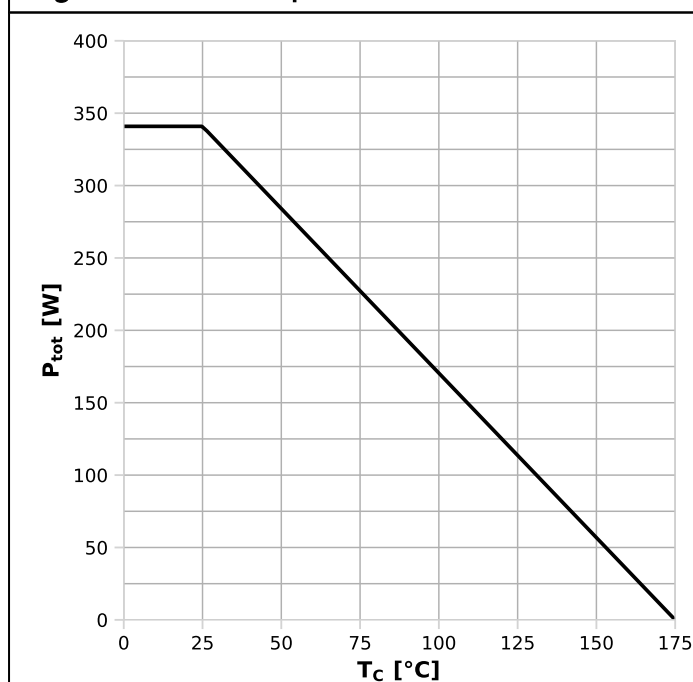
**Table 8 Reverse diode characteristics**

| Parameter                                     | Symbol    | Values |      |      | Unit | Note / Test condition                                                                                     |
|-----------------------------------------------|-----------|--------|------|------|------|-----------------------------------------------------------------------------------------------------------|
|                                               |           | Min.   | Typ. | Max. |      |                                                                                                           |
| Drain-source reverse voltage                  | $V_{SD}$  | -      | 4.1  | 5.0  | V    | $V_{GS} = 0 \text{ V}, I_S = 44.7 \text{ A}, T_j = 25^\circ\text{C}$                                      |
|                                               |           |        | 3.8  | -    |      | $V_{GS} = 0 \text{ V}, I_S = 44.7 \text{ A}, T_j = 175^\circ\text{C}$                                     |
| MOSFET forward recovery time                  | $t_{fr}$  | -      | 11   | -    | ns   | $V_{DD} = 500 \text{ V}, I_S = 44.7 \text{ A}, di_S/dt = 4000 \text{ A}/\mu\text{s}; \text{ see table 9}$ |
| MOSFET forward recovery charge <sup>12)</sup> | $Q_{fr}$  |        | 162  |      | nC   |                                                                                                           |
| MOSFET peak forward recovery current          | $I_{frm}$ |        | 29   |      | A    |                                                                                                           |

12)  $Q_{fr}$  includes  $Q_{oss}$

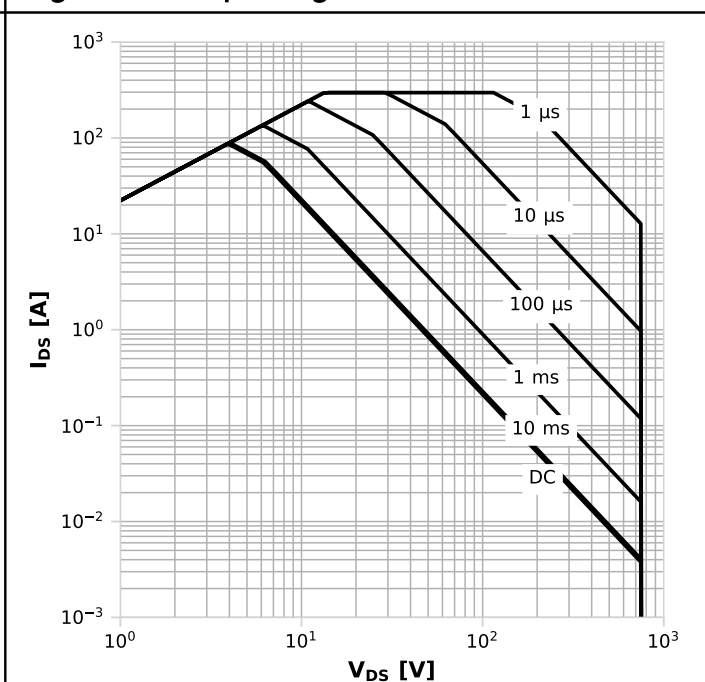
## 5 Electrical characteristics diagrams

**Diagram 1: Power dissipation**



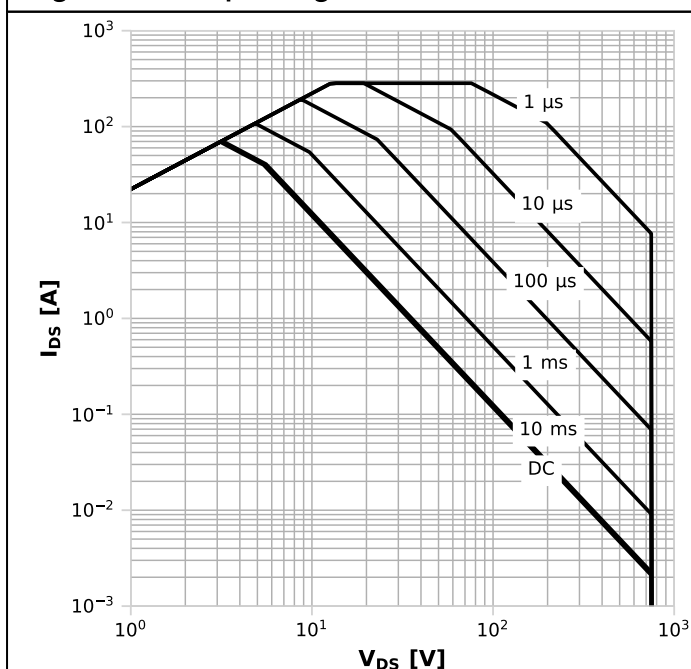
$$P_{tot}=f(T_c)$$

**Diagram 2: Safe operating area**



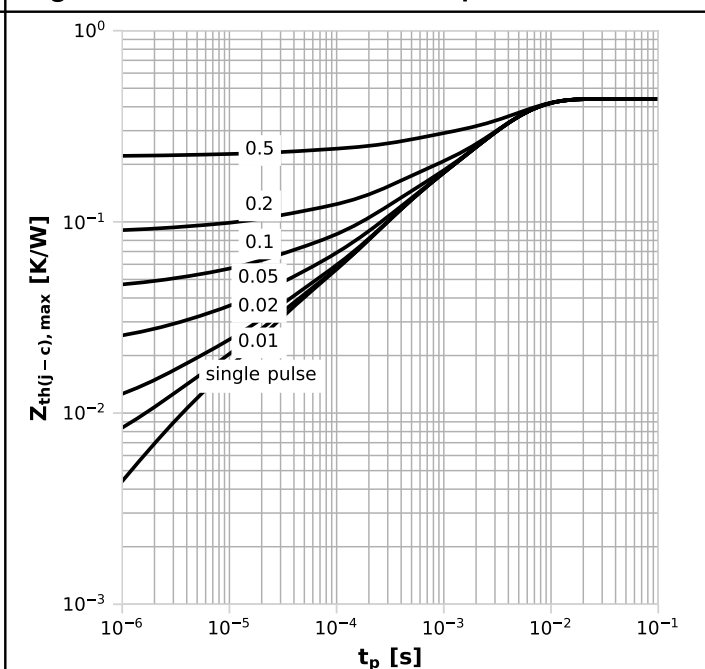
$$I_{DS}=f(V_{DS}); T_c=25^{\circ}\text{C}; D=0; \text{parameter: } t_p$$

**Diagram 3: Safe operating area**



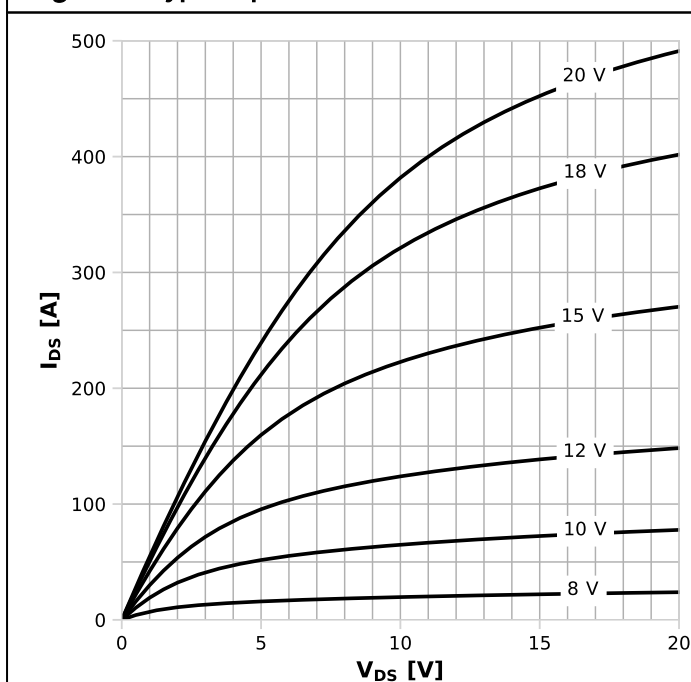
$$I_{DS}=f(V_{DS}); T_c=80^{\circ}\text{C}; D=0; \text{parameter: } t_p$$

**Diagram 4: Max. transient thermal impedance**



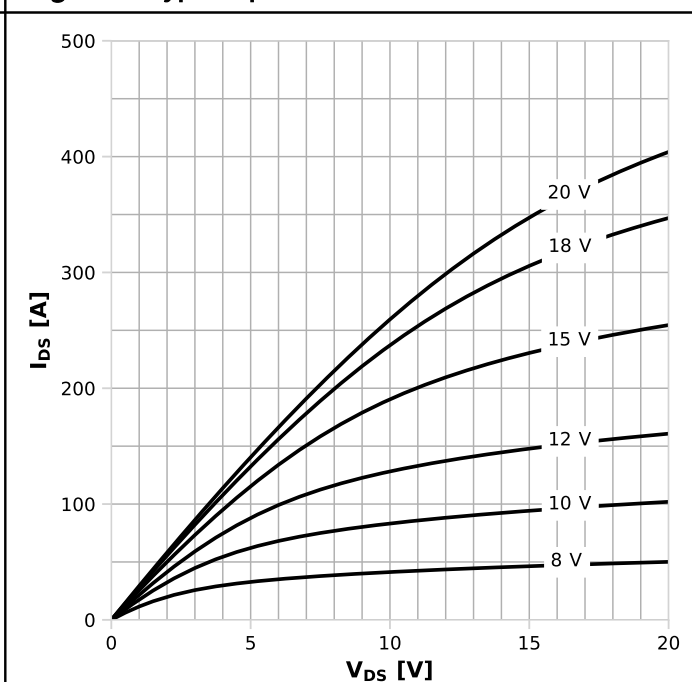
$$Z_{th(j-c), max}=f(t_p); \text{parameter: } D=t_p/T$$

**Diagram 5: Typ. output characteristics**



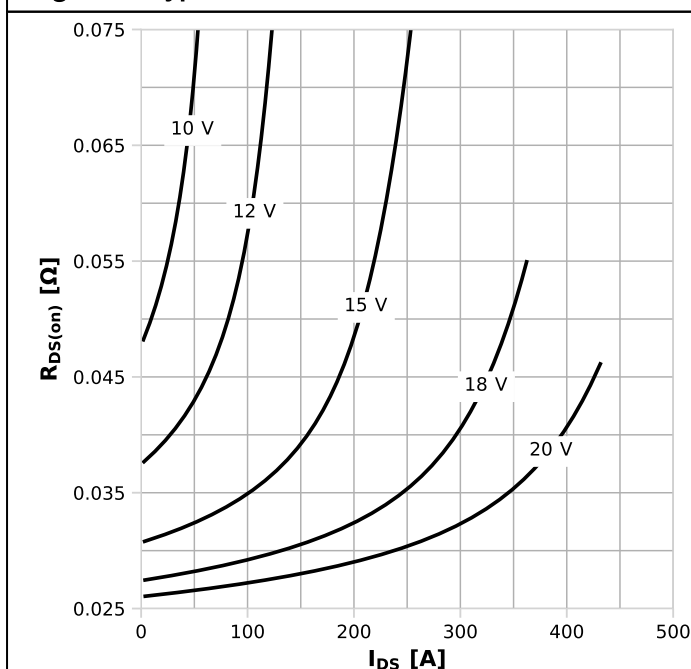
$I_{DS}=f(V_{DS})$ ;  $T_j=25^\circ\text{C}$ ; parameter:  $V_{GS}$

**Diagram 6: Typ. output characteristics**



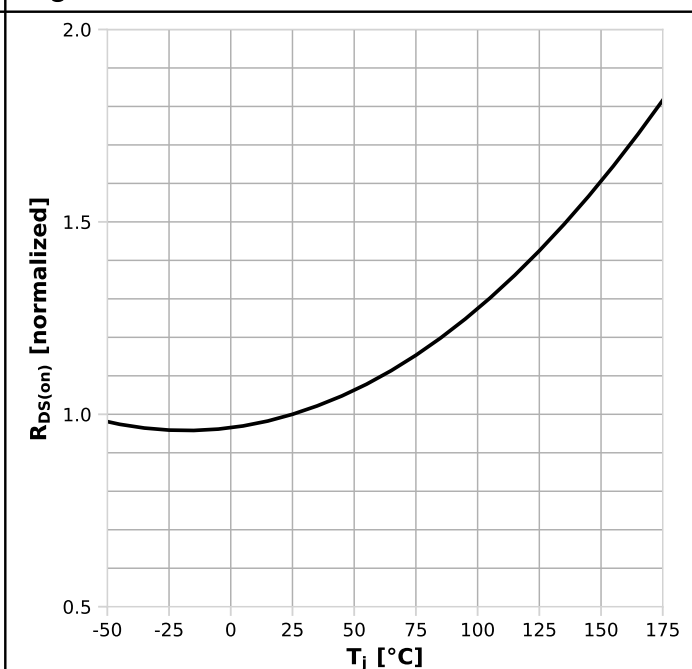
$I_{DS}=f(V_{DS})$ ;  $T_j=175^\circ\text{C}$ ; parameter:  $V_{GS}$

**Diagram 7: Typ. drain-source on-state resistance**



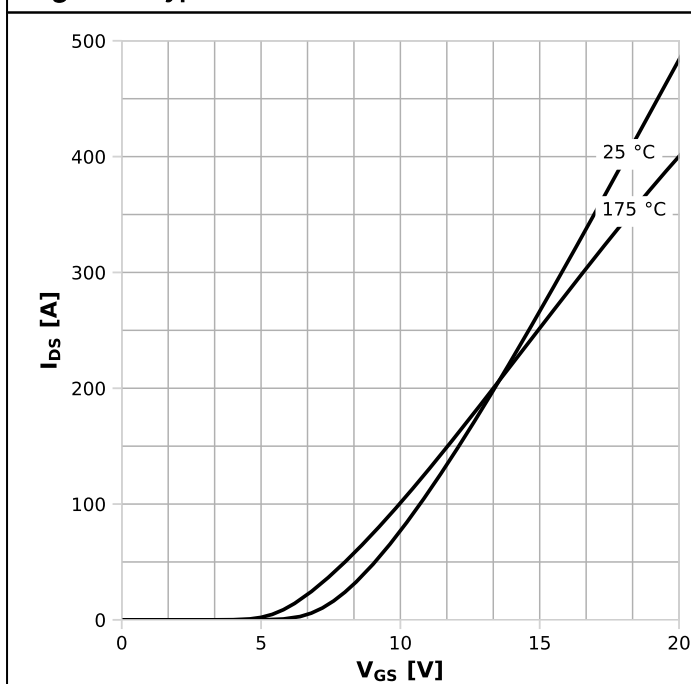
$R_{DS(on)}=f(I_{DS})$ ;  $T_j=125^\circ\text{C}$ ; parameter:  $V_{GS}$

**Diagram 8: Drain-source on-state resistance**



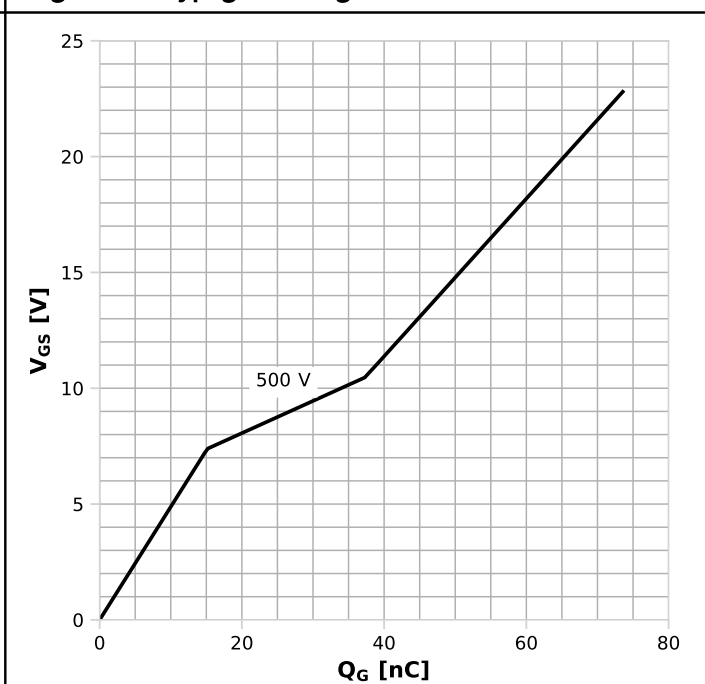
$R_{DS(on)}=f(T_j)$ ;  $I_D=44.7$  A;  $V_{GS}=18$  V

**Diagram 9: Typ. transfer characteristics**



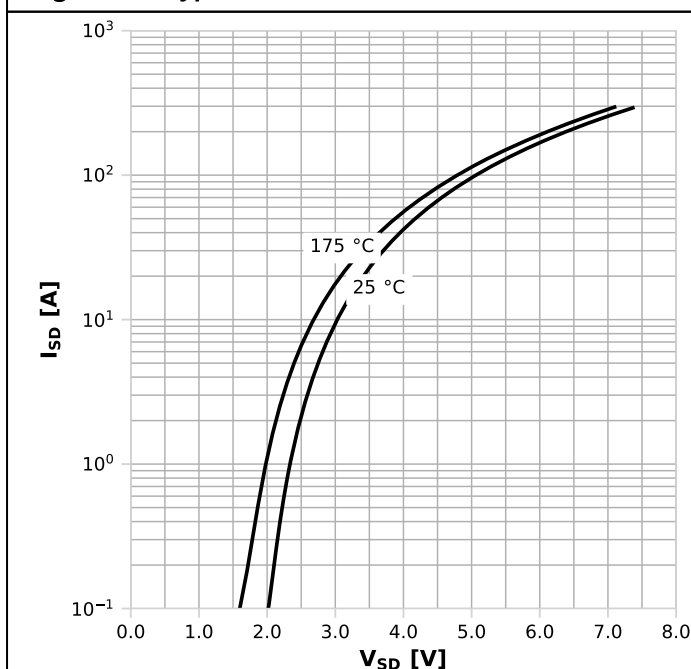
$I_{DS}=f(V_{GS}); V_{DS}=20 \text{ V}; \text{parameter: } T_j$

**Diagram 10: Typ. gate charge**



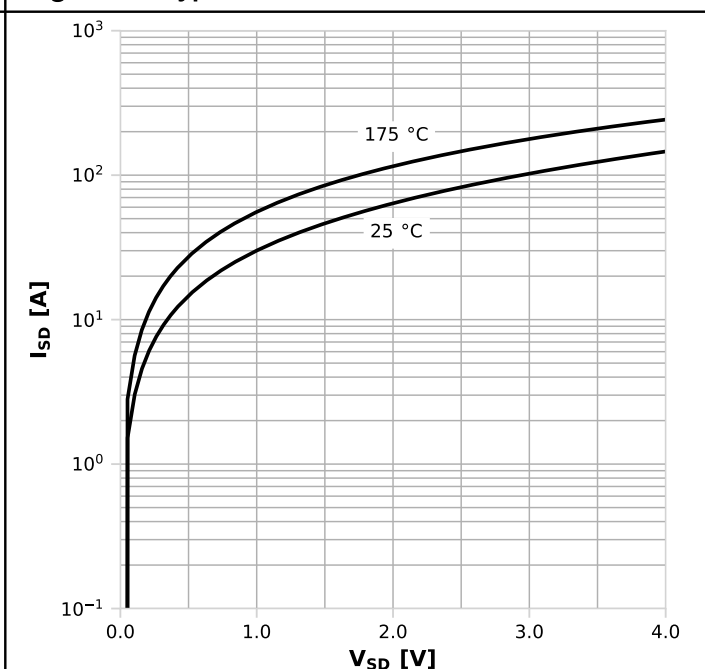
$V_{GS}=f(Q_G); I_D=44.7 \text{ A pulsed}; \text{parameter: } V_{DD}$

**Diagram 11: Typ. reverse drain current characteristics**



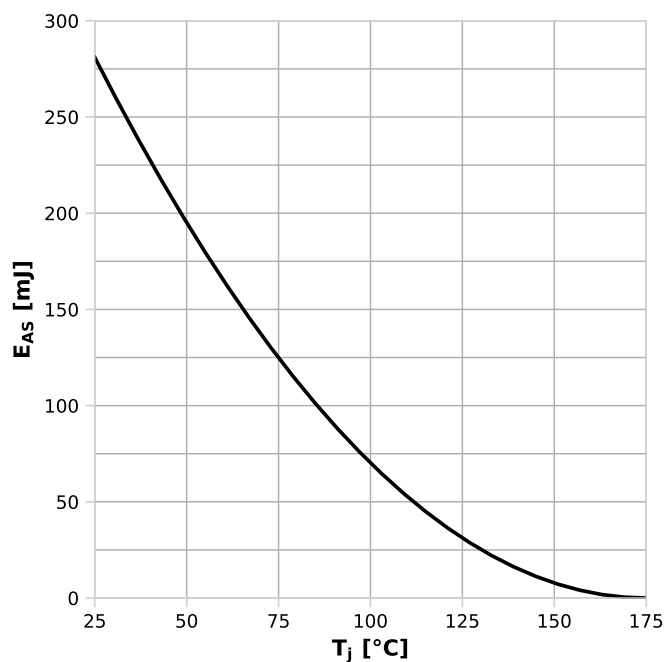
$I_{SD}=f(V_{SD}); V_{GS}=0 \text{ V}; \text{parameter: } T_j$

**Diagram 12: Typ. reverse drain current characteristics**



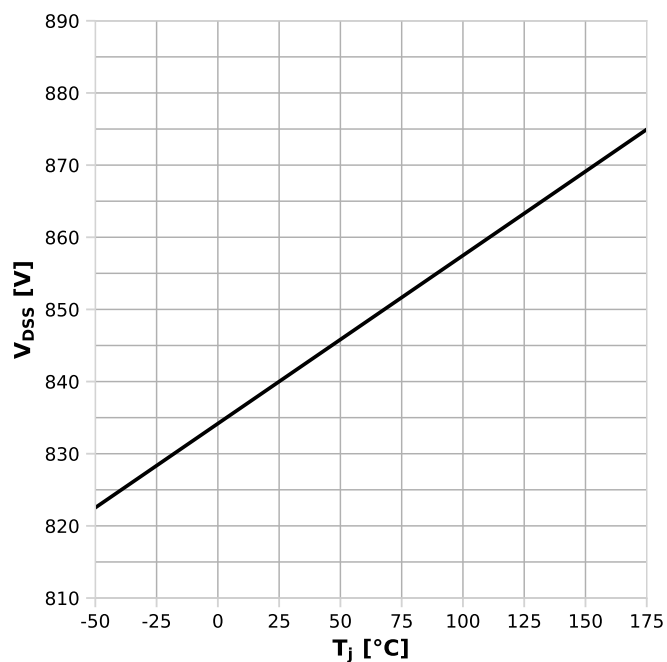
$I_{SD}=f(V_{SD}); V_{GS}=18 \text{ V}; \text{parameter: } T_j$

**Diagram 13: Avalanche energy**



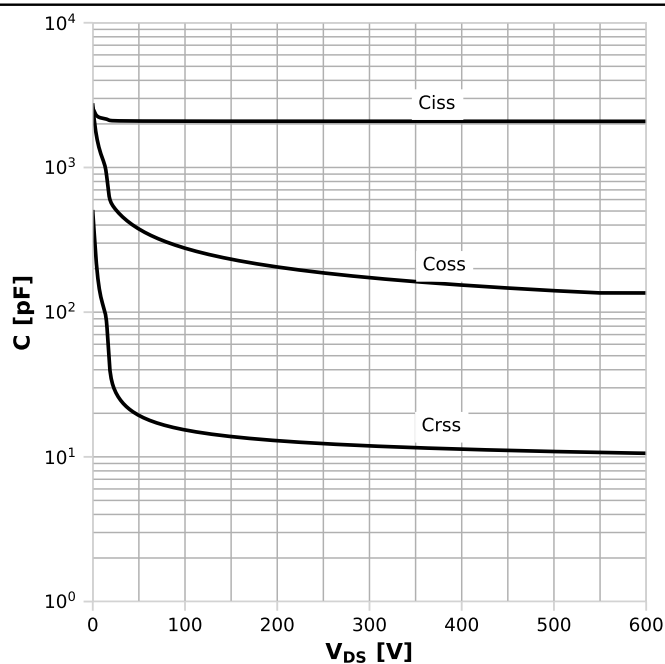
$E_{AS}=f(T_J); I_D=10.5\text{ A}; V_{DD}=50\text{ V}$

**Diagram 14: Drain-source breakdown voltage**



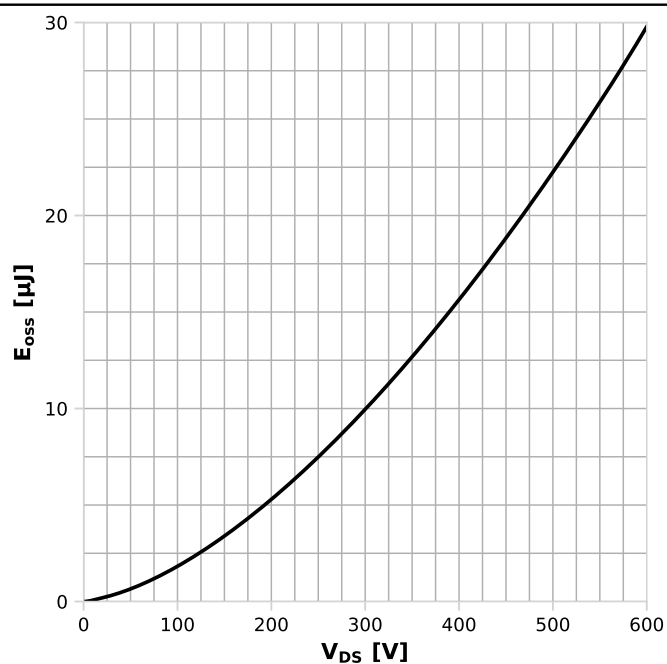
$V_{DSS}=f(T_J); I_D=0.98\text{ mA}$

**Diagram 15: Typ. capacitances**



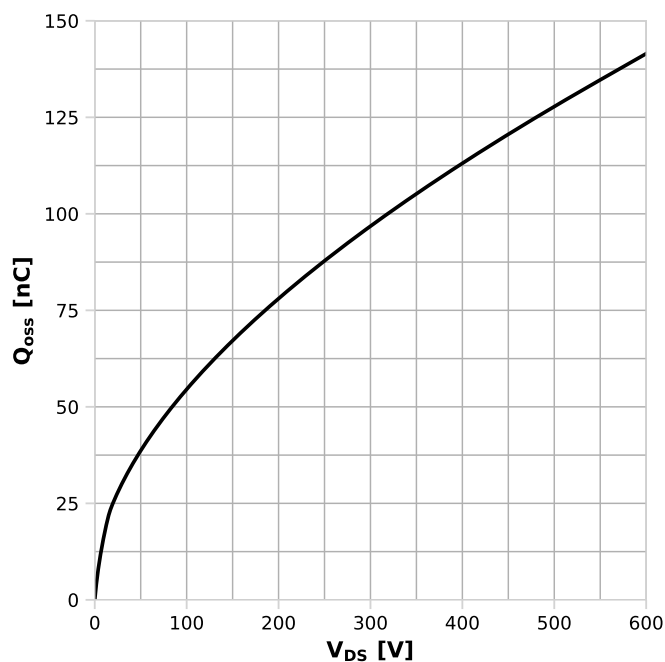
$C=f(V_{DS}); V_{GS}=0\text{ V}; f=250\text{ kHz}$

**Diagram 16: Typ. Coss stored energy**



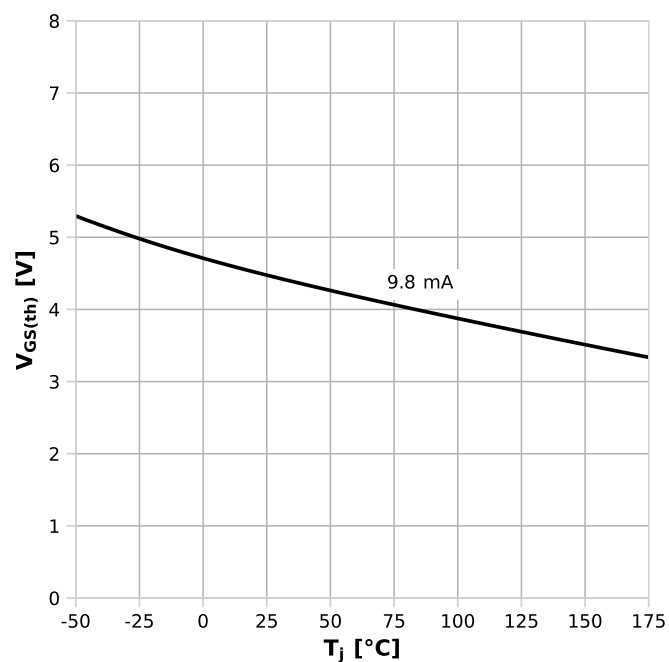
$E_{OSS}=f(V_{DS})$

Diagram 17: Typ. Qoss output charge



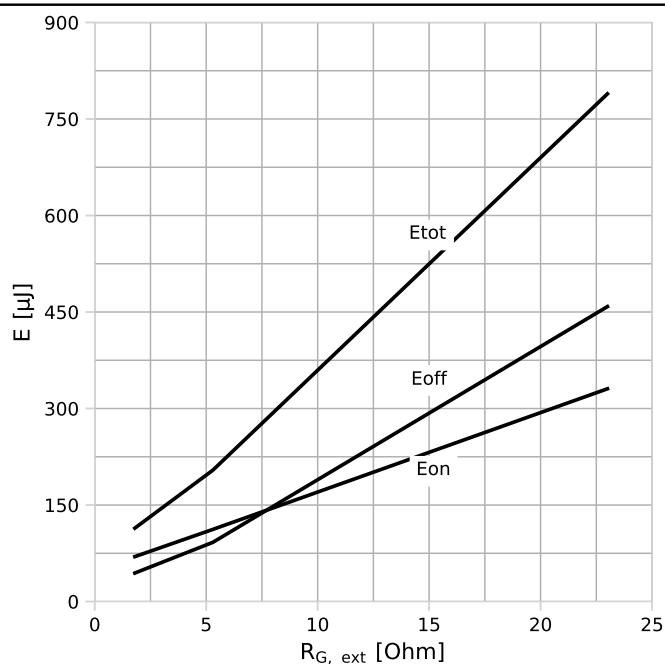
$$Q_{oss}=f(V_{DS})$$

Diagram 18: Typ. gate threshold voltage



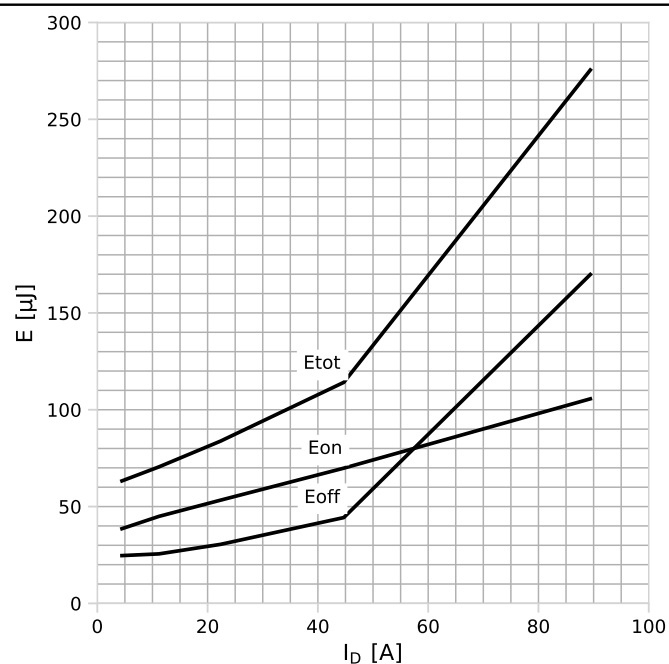
$$V_{GS(th)}=f(T_J), V_{GS}=V_{DS}; \text{ parameter: } I_D$$

Diagram 19: Typ. Switching Losses vs  $R_{G,ext}$

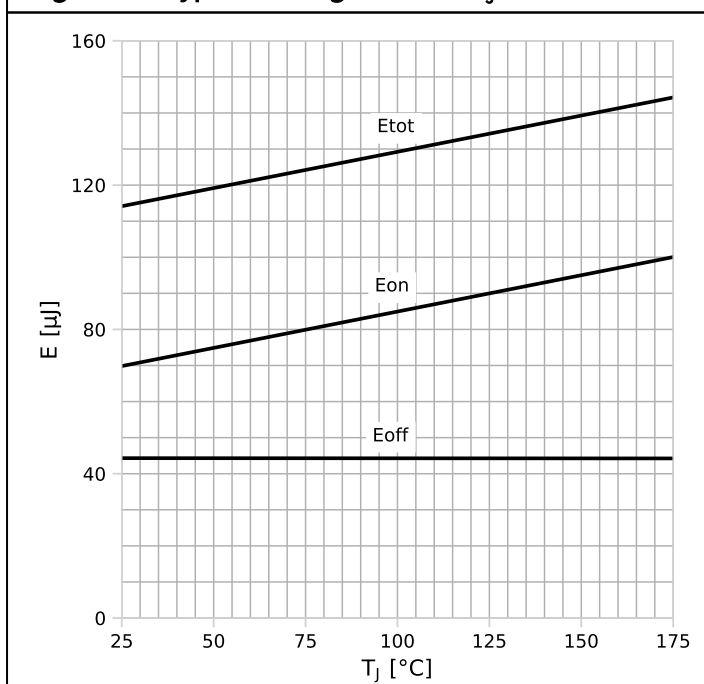


$$V_{DD}=500 \text{ V}; I_D=44.7 \text{ A}; T_J=25^\circ\text{C}$$

Diagram 20: Typ. Switching Losses vs switching current



$$V_{DD}=500 \text{ V}; R_{G,ext}=1.8 \text{ Ohm}; T_J=25^\circ\text{C}$$

**Diagram 21: Typ. Switching Losses vs  $T_J$** 

$V_{DD}=500$  V;  $R_{G,ext}=1.8$  Ohm;  $I_D=44.7$  A

6 Test circuits

Table 9 Body diode characteristics

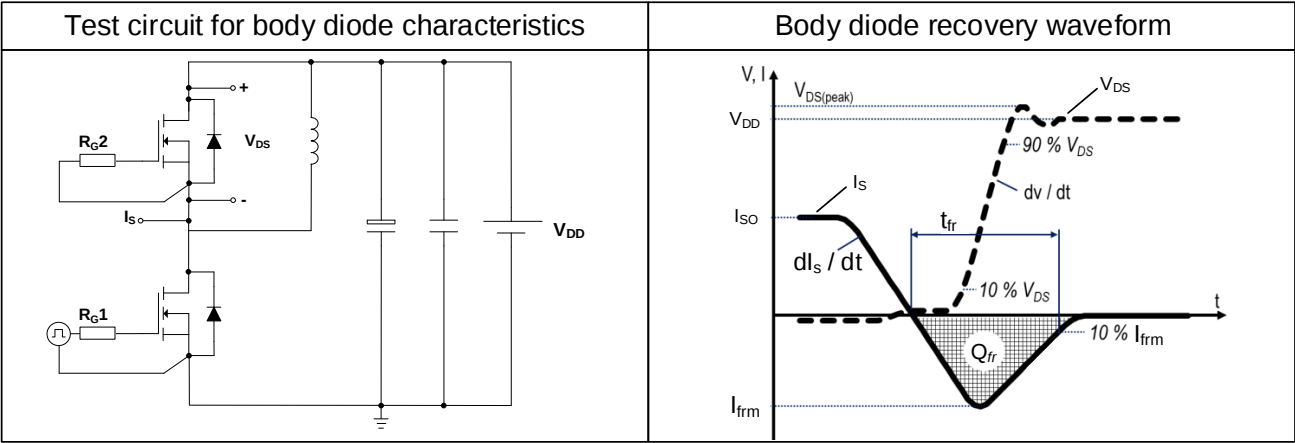
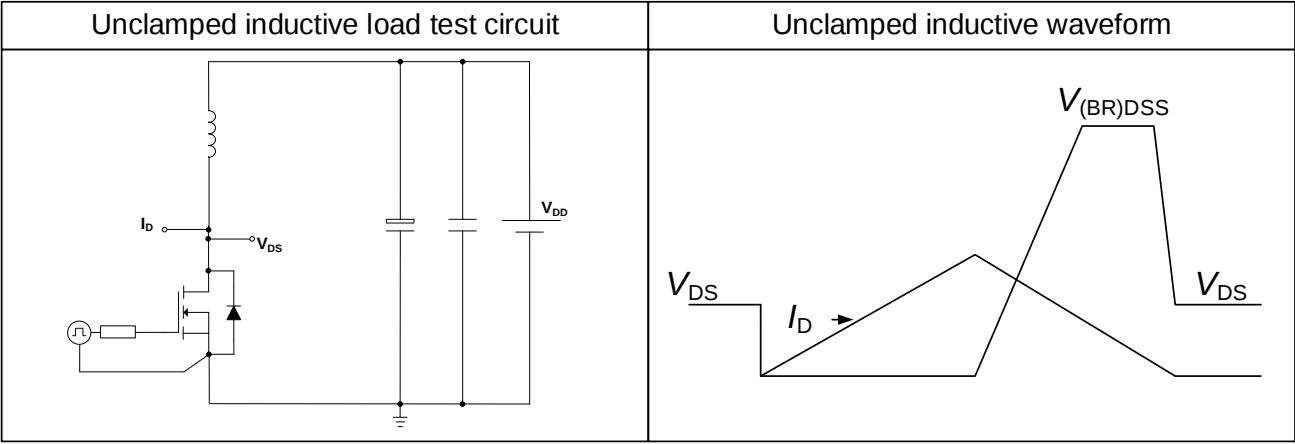


Table 10 Switching times



Table 11 Unclamped inductive load



## 7 Package outlines

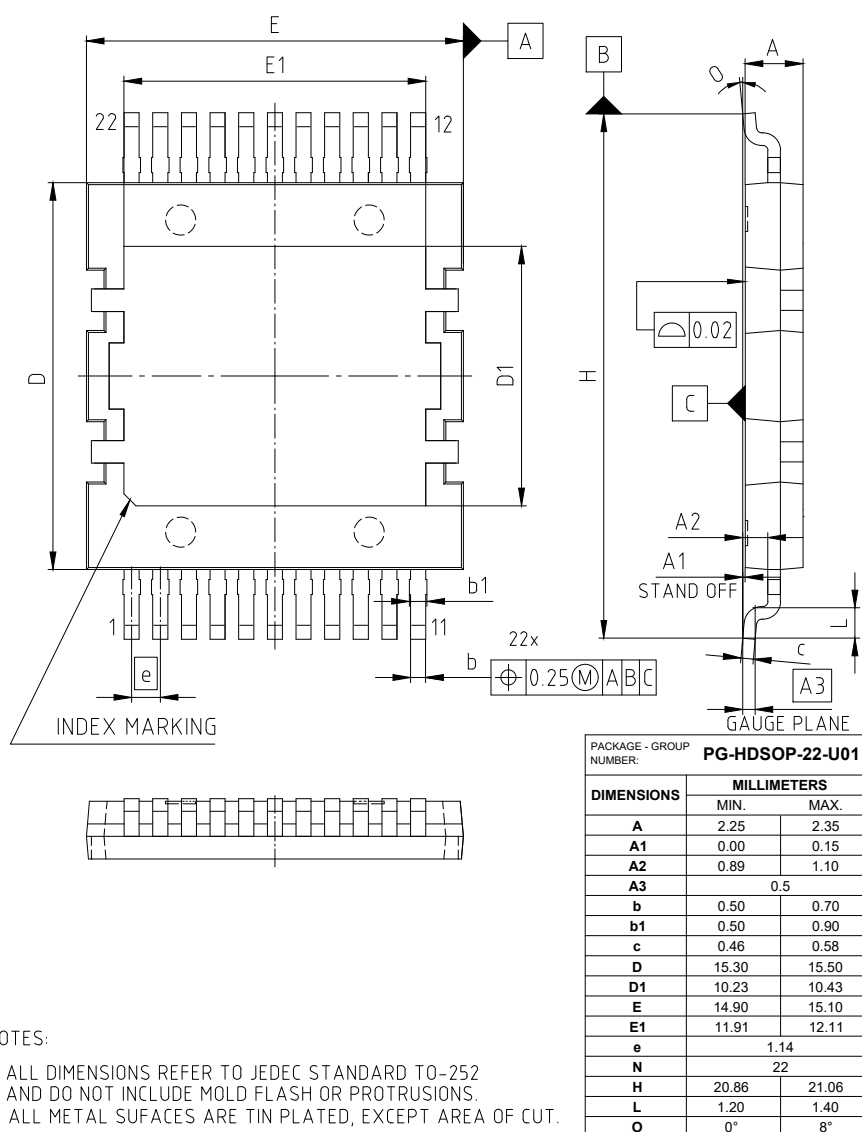
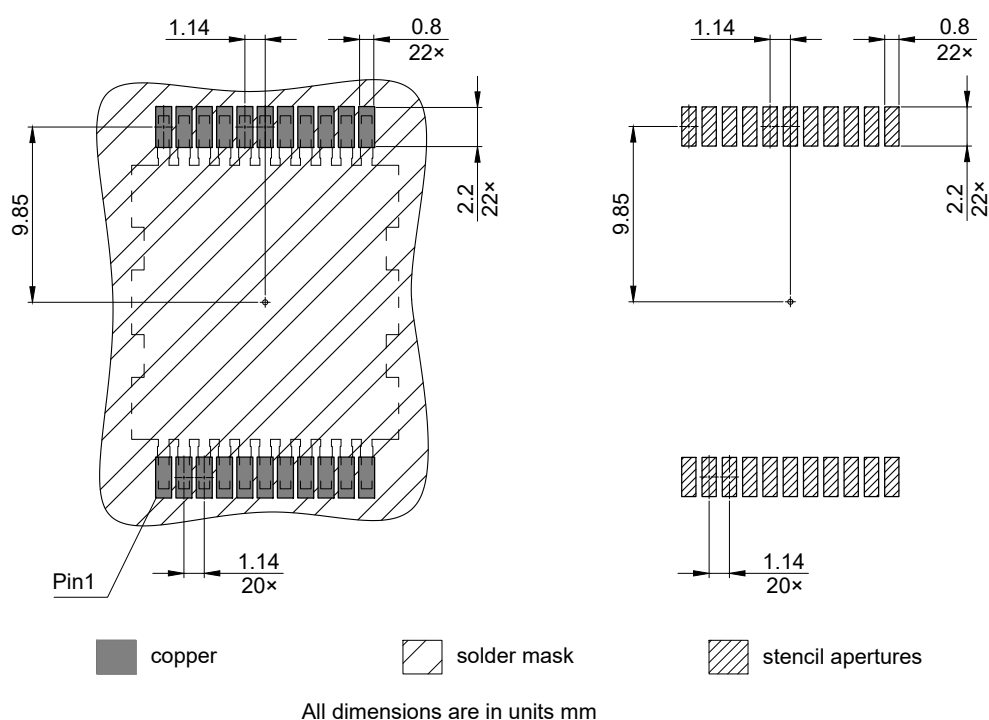
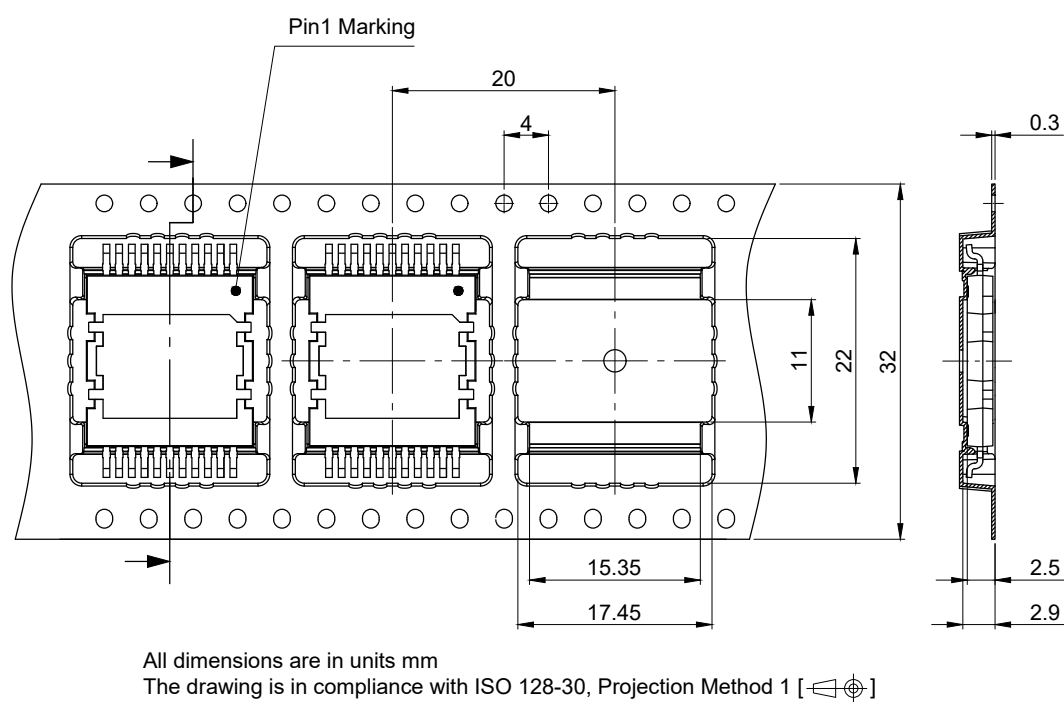


Figure 1 Outline PG-HDSOP-22, dimensions in mm



**Figure 2** Footprint drawing PG-HDSOP-22, dimensions in mm



**Figure 3** Packaging variant PG-HDSOP-22, dimensions in mm

## 8 Appendix A

**Table 12**    **Related links**

- [IFX CoolSiC CoolSiC™ Automotive Power Device 750 V G2 Webpage](#)
- [IFX CoolSiC CoolSiC™ Automotive Power Device 750 V G2 Application Note](#)
- [IFX CoolSiC CoolSiC™ Automotive Power Device 750 V G2 Simulation Model](#)
- [IFX Design tools](#)

**Revision history**

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AIMDQ75R020M2H

**Revision 2025-09-10, Rev. 1.0**

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Previous revisions

| Revision | Date       | Subjects (major changes since last revision) |
|----------|------------|----------------------------------------------|
| 1.0      | 2025-09-10 | Release of final version                     |

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