

# MOSFET

## CoolSiC™ Power Device 750 V G1

The 750 V CoolSiC™ is built over the solid silicon carbide technology developed in Infineon in more than 20 years. Leveraging the wide bandgap SiC material characteristics, the 750V CoolSiC™ MOSFET offers a unique combination of performance, reliability and ease of use. Suitable for high temperature and harsh operations, it enables the simplified and cost effective deployment of the highest system efficiency.

### 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
- 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
- Reduced switching losses through improved gate control

### Potential applications

- EV charging infrastructure
- Solar PV inverters
- UPS (uninterruptable power supplies)
- Energy storage and battery formation
- Telecom and Server SMPS

### Product validation

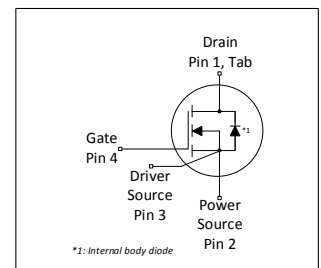
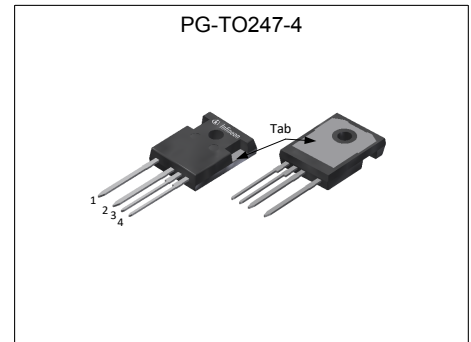
Fully qualified according to JEDEC for Industrial Applications

*Please note: The source and driver source pins are not exchangeable. Their exchange might lead to malfunction.*

**Table 1 Key Performance Parameters**

| Parameter                         | Value | Unit |
|-----------------------------------|-------|------|
| $V_{DSS}$ over full $T_{j,range}$ | 750   | V    |
| $R_{DS(on),typ}$                  | 16    | mΩ   |
| $R_{DS(on),max}$                  | 22    | mΩ   |
| $Q_{G,typ}$                       | 81    | nC   |
| $I_{DM,max}$                      | 333   | A    |
| $Q_{oss,typ} @ 500 V$             | 163   | nC   |
| $E_{oss,typ} @ 500 V$             | 29.2  | μJ   |

| Type / Ordering Code | Package    | Marking  | Related Links  |
|----------------------|------------|----------|----------------|
| IMZA75R016M1H        | PG-TO247-4 | 75R016M1 | see Appendix A |



RoHS

Table of Contents

Description ..... 1

Maximum ratings ..... 3

Thermal characteristics ..... 4

Operating range ..... 4

Electrical characteristics ..... 5

Electrical characteristics diagrams ..... 7

Test Circuits ..... 12

Package Outlines ..... 13

Appendix A ..... 14

Revision History ..... 15

Trademarks ..... 15

Disclaimer ..... 15

## 1 Maximum ratings

at  $T_j = 25\text{ °C}$ , 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.

**Table 2 Maximum ratings**

| Parameter                                      | Symbol    | Values |      |            | Unit | Note / Test Condition                                                                         |
|------------------------------------------------|-----------|--------|------|------------|------|-----------------------------------------------------------------------------------------------|
|                                                |           | Min.   | Typ. | Max.       |      |                                                                                               |
| Continuous DC drain current <sup>1)</sup>      | $I_{DDC}$ | -      | -    | 89<br>63   | A    | $T_C = 25\text{ °C}$<br>$T_C = 100\text{ °C}$                                                 |
| Peak drain current <sup>2)</sup>               | $I_{DM}$  | -      | -    | 333        | A    | $T_C = 25\text{ °C}$ , $V_{GS} = 18\text{ V}$                                                 |
| Avalanche energy, single pulse                 | $E_{AS}$  | -      | -    | 425        | mJ   | $I_D = 15.9\text{ A}$ , $V_{DD} = 50\text{ V}$ ; see table 11                                 |
| Avalanche energy, repetitive pulse             | $E_{AR}$  | -      | -    | 2.12       | mJ   | $I_D = 15.9\text{ A}$ , $V_{DD} = 50\text{ V}$ ; see table 11                                 |
| Avalanche current, single pulse                | $I_{AS}$  | -      | -    | 15.9       | A    | -                                                                                             |
| MOSFET $dv/dt$ ruggedness                      | $dv/dt$   | -      | -    | 200        | V/ns | $V_{DS} = 0...500\text{ V}$                                                                   |
| Gate source voltage (static)                   | $V_{GS}$  | -5     | -    | 23         | V    | -                                                                                             |
| Gate source voltage (transient)                | $V_{GS}$  | -10    | -    | 25         | V    | $t_p \leq 500\text{ ns}$ , duty cycle $\leq 1\%$                                              |
| Power dissipation                              | $P_{tot}$ | -      | -    | 319        | W    | $T_C = 25\text{ °C}$                                                                          |
| Storage temperature                            | $T_{stg}$ | -55    | -    | 150        | °C   | -                                                                                             |
| Operating junction temperature                 | $T_j$     | -55    | -    | 175        | °C   | -                                                                                             |
| Mounting torque                                | -         | -      | -    | 60         | Ncm  | M3 and M3.5 screws                                                                            |
| Continuous reverse drain current <sup>1)</sup> | $I_{SDC}$ | -      | -    | 89<br>55   | A    | $V_{GS} = 18\text{ V}$ , $T_C = 25\text{ °C}$<br>$V_{GS} = 0\text{ V}$ , $T_C = 25\text{ °C}$ |
| Peak reverse drain current <sup>2)</sup>       | $I_{SM}$  | -      | -    | 333<br>106 | A    | $T_C = 25\text{ °C}$ , $t_p \leq 250\text{ ns}$<br>$T_C = 25\text{ °C}$                       |
| Insulation withstand voltage                   | $V_{ISO}$ | -      | -    | n.a.       | V    | $V_{rms}$ , $T_C = 25\text{ °C}$ , $t = 1\text{ min}$                                         |

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

<sup>2)</sup> Pulse width  $t_p$  limited by  $T_{j,max}$

## 2 Thermal characteristics

**Table 3 Thermal characteristics**

| Parameter                                                   | Symbol        | Values |      |      | Unit | Note / Test Condition                                                                                 |
|-------------------------------------------------------------|---------------|--------|------|------|------|-------------------------------------------------------------------------------------------------------|
|                                                             |               | Min.   | Typ. | Max. |      |                                                                                                       |
| Thermal resistance, junction - case                         | $R_{th(j-c)}$ | -      | -    | 0.47 | °C/W | Not subject to production test. Parameter verified by design/characterization according to JESD51-14. |
| Soldering temperature, wave soldering only allowed at leads | $T_{sold}$    | -      | -    | 260  | °C   | 1.6mm (0.063 in.) from case for 10s                                                                   |

## 3 Operating range

**Table 4 Operating range**

| Parameter                                                               | Symbol        | Values |      |      | Unit | Note / Test Condition |
|-------------------------------------------------------------------------|---------------|--------|------|------|------|-----------------------|
|                                                                         |               | Min.   | Typ. | Max. |      |                       |
| Gate-source voltage operating range including undershoots <sup>1)</sup> | $V_{GS}$      | -2     | -    | 20   | V    | -                     |
| Recommended turn-on voltage                                             | $V_{GS(on)}$  | -      | 18   | -    | V    | -                     |
| Recommended turn-off voltage                                            | $V_{GS(off)}$ | -      | 0    | -    | V    | -                     |

<sup>1)</sup> **Important notice:** If the gate source voltage of the device in application exceeds the operating range (Table 4), the device  $R_{DS(on)}$  and  $V_{GS(th)}$  might exceed the maximum value stated in the datasheet at the end of the lifetime of the device. In order to ensure sound operation of the device over the planned lifetime, the maximum ratings (Table 2) and the application note AN2018-09 must be considered.

## 4 Electrical characteristics

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

**Table 5 Static characteristics**

| Parameter                            | Symbol       | Values |                      |                   | Unit          | Note / Test Condition                                                                                                                                                                                                                                                                             |
|--------------------------------------|--------------|--------|----------------------|-------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |              | Min.   | Typ.                 | Max.              |               |                                                                                                                                                                                                                                                                                                   |
| Drain-source voltage <sup>1)</sup>   | $V_{DSS}$    | 750    | -                    | -                 | V             | $V_{GS} = 0\text{ V}$ , $I_D = 1.49\text{ mA}$ ,<br>$T_j = -55\text{ °C}$ to $175\text{ °C}$                                                                                                                                                                                                      |
| Gate threshold voltage <sup>2)</sup> | $V_{GS(th)}$ | 3.5    | 4.3                  | 5.6               | V             | $V_{DS} = V_{GS}$ , $I_D = 14.9\text{ mA}$                                                                                                                                                                                                                                                        |
| Zero gate voltage drain current      | $I_{DSS}$    | -      | 1<br>10              | 75<br>-           | $\mu\text{A}$ | $V_{DS} = 750\text{ V}$ , $V_{GS} = 0\text{ V}$ , $T_j = 25\text{ °C}$<br>$V_{DS} = 750\text{ V}$ , $V_{GS} = 0\text{ V}$ , $T_j = 175\text{ °C}$                                                                                                                                                 |
| Gate-source leakage current          | $I_{GSS}$    | -      | -                    | 100               | nA            | $V_{GS} = 20\text{ V}$ , $V_{DS} = 0\text{ V}$                                                                                                                                                                                                                                                    |
| Drain-source on-state resistance     | $R_{DS(on)}$ | -      | 20<br>16<br>15<br>29 | -<br>22<br>-<br>- | m $\Omega$    | $V_{GS} = 15\text{ V}$ , $I_D = 41.5\text{ A}$ , $T_j = 25\text{ °C}$<br>$V_{GS} = 18\text{ V}$ , $I_D = 41.5\text{ A}$ , $T_j = 25\text{ °C}$<br>$V_{GS} = 20\text{ V}$ , $I_D = 41.5\text{ A}$ , $T_j = 25\text{ °C}$<br>$V_{GS} = 18\text{ V}$ , $I_D = 41.5\text{ A}$ , $T_j = 175\text{ °C}$ |
| Internal gate resistance             | $R_{G,int}$  | -      | 3                    | -                 | $\Omega$      | $f = 1\text{ MHz}$                                                                                                                                                                                                                                                                                |

**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                                          | $C_{iss}$    | -      | 2869 | -    | pF   | $V_{GS} = 0\text{ V}$ , $V_{DS} = 500\text{ V}$ , $f = 250\text{ kHz}$                                                 |
| Reverse transfer capacitance                               | $C_{rss}$    | -      | 17   | -    | pF   | $V_{GS} = 0\text{ V}$ , $V_{DS} = 500\text{ V}$ , $f = 250\text{ kHz}$                                                 |
| Output capacitance <sup>3)</sup>                           | $C_{oss}$    | -      | 181  | 236  | pF   | $V_{GS} = 0\text{ V}$ , $V_{DS} = 500\text{ V}$ , $f = 250\text{ kHz}$                                                 |
| Output charge <sup>3)</sup>                                | $Q_{oss}$    | -      | 163  | 212  | nC   | calculation based on $C_{oss}$                                                                                         |
| Effective output capacitance, energy related <sup>4)</sup> | $C_{o(er)}$  | -      | 234  | -    | pF   | $V_{GS} = 0\text{ V}$ ,<br>$V_{DS} = 0\text{...}500\text{ V}$                                                          |
| Effective output capacitance, time related <sup>5)</sup>   | $C_{o(tr)}$  | -      | 326  | -    | pF   | $I_D = \text{constant}$ , $V_{GS} = 0\text{ V}$ ,<br>$V_{DS} = 0\text{...}500\text{ V}$                                |
| Turn-on delay time                                         | $t_{d(on)}$  | -      | 15   | -    | ns   | $V_{DD} = 500\text{ V}$ , $V_{GS} = 18\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$R_G = 1.8\text{ }\Omega$ ; see table 10 |
| Rise time                                                  | $t_r$        | -      | 18   | -    | ns   | $V_{DD} = 500\text{ V}$ , $V_{GS} = 18\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$R_G = 1.8\text{ }\Omega$ ; see table 10 |
| Turn-off delay time                                        | $t_{d(off)}$ | -      | 32   | -    | ns   | $V_{DD} = 500\text{ V}$ , $V_{GS} = 18\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$R_G = 1.8\text{ }\Omega$ ; see table 10 |
| Fall time                                                  | $t_f$        | -      | 10   | -    | ns   | $V_{DD} = 500\text{ V}$ , $V_{GS} = 18\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$R_G = 1.8\text{ }\Omega$ ; see table 10 |

<sup>1)</sup> Tested at  $T_j = 25\text{ °C}$ , minimum  $V_{DSS}$  verified by design over full junction temperature range.

<sup>2)</sup> Tested after 1 ms 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>3)</sup> Maximum specification is defined by calculated six sigma upper confidence bound.

<sup>4)</sup>  $C_{o(er)}$  is a fixed capacitance that gives the same stored energy as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 500 V.

<sup>5)</sup>  $C_{o(tr)}$  is a fixed capacitance that gives the same charging time as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 500 V.

**Table 7 Gate charge characteristics**

| Parameter                     | Symbol       | Values |      |      | Unit | Note / Test Condition                                                                   |
|-------------------------------|--------------|--------|------|------|------|-----------------------------------------------------------------------------------------|
|                               |              | Min.   | Typ. | Max. |      |                                                                                         |
| Plateau gate to source charge | $Q_{GS(pl)}$ | -      | 23   | -    | nC   | $V_{DD} = 500\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$V_{GS} = 0\text{ to }18\text{ V}$ |
| Gate to drain charge          | $Q_{GD}$     | -      | 20   | -    | nC   | $V_{DD} = 500\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$V_{GS} = 0\text{ to }18\text{ V}$ |
| Total gate charge             | $Q_G$        | -      | 81   | -    | nC   | $V_{DD} = 500\text{ V}$ , $I_D = 41.5\text{ A}$ ,<br>$V_{GS} = 0\text{ to }18\text{ V}$ |

**Table 8 Reverse diode characteristics**

| Parameter                                    | Symbol    | Values |            |        | Unit | Note / Test Condition                                                                                                                                                                                                |
|----------------------------------------------|-----------|--------|------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              |           | Min.   | Typ.       | Max.   |      |                                                                                                                                                                                                                      |
| Drain-source reverse voltage                 | $V_{SD}$  | -      | 3.9        | 5.3    | V    | $V_{GS} = 0\text{ V}$ , $I_S = 41.5\text{ A}$ , $T_j = 25\text{ °C}$                                                                                                                                                 |
| MOSFET forward recovery time                 | $t_{fr}$  | -<br>- | 28<br>17   | -<br>- | ns   | $V_{DD} = 500\text{ V}$ , $I_S = 41.5\text{ A}$ ,<br>$di_S/dt = 1000\text{ A}/\mu\text{s}$ ; see table 9<br>$V_{DD} = 500\text{ V}$ , $I_S = 41.5\text{ A}$ ,<br>$di_S/dt = 4000\text{ A}/\mu\text{s}$ ; see table 9 |
| MOSFET forward recovery charge <sup>1)</sup> | $Q_{fr}$  | -<br>- | 179<br>357 | -<br>- | nC   | $V_{DD} = 500\text{ V}$ , $I_S = 41.5\text{ A}$ ,<br>$di_S/dt = 1000\text{ A}/\mu\text{s}$ ; see table 9<br>$V_{DD} = 500\text{ V}$ , $I_S = 41.5\text{ A}$ ,<br>$di_S/dt = 4000\text{ A}/\mu\text{s}$ ; see table 9 |
| MOSFET peak forward recovery current         | $I_{frm}$ | -<br>- | 13<br>42   | -<br>- | A    | $V_{DD} = 500\text{ V}$ , $I_S = 41.5\text{ A}$ ,<br>$di_S/dt = 1000\text{ A}/\mu\text{s}$ ; see table 9<br>$V_{DD} = 500\text{ V}$ , $I_S = 41.5\text{ A}$ ,<br>$di_S/dt = 4000\text{ A}/\mu\text{s}$ ; see table 9 |

<sup>1)</sup>  $Q_{fr}$  includes  $Q_{oss}$

5 Electrical characteristics diagrams

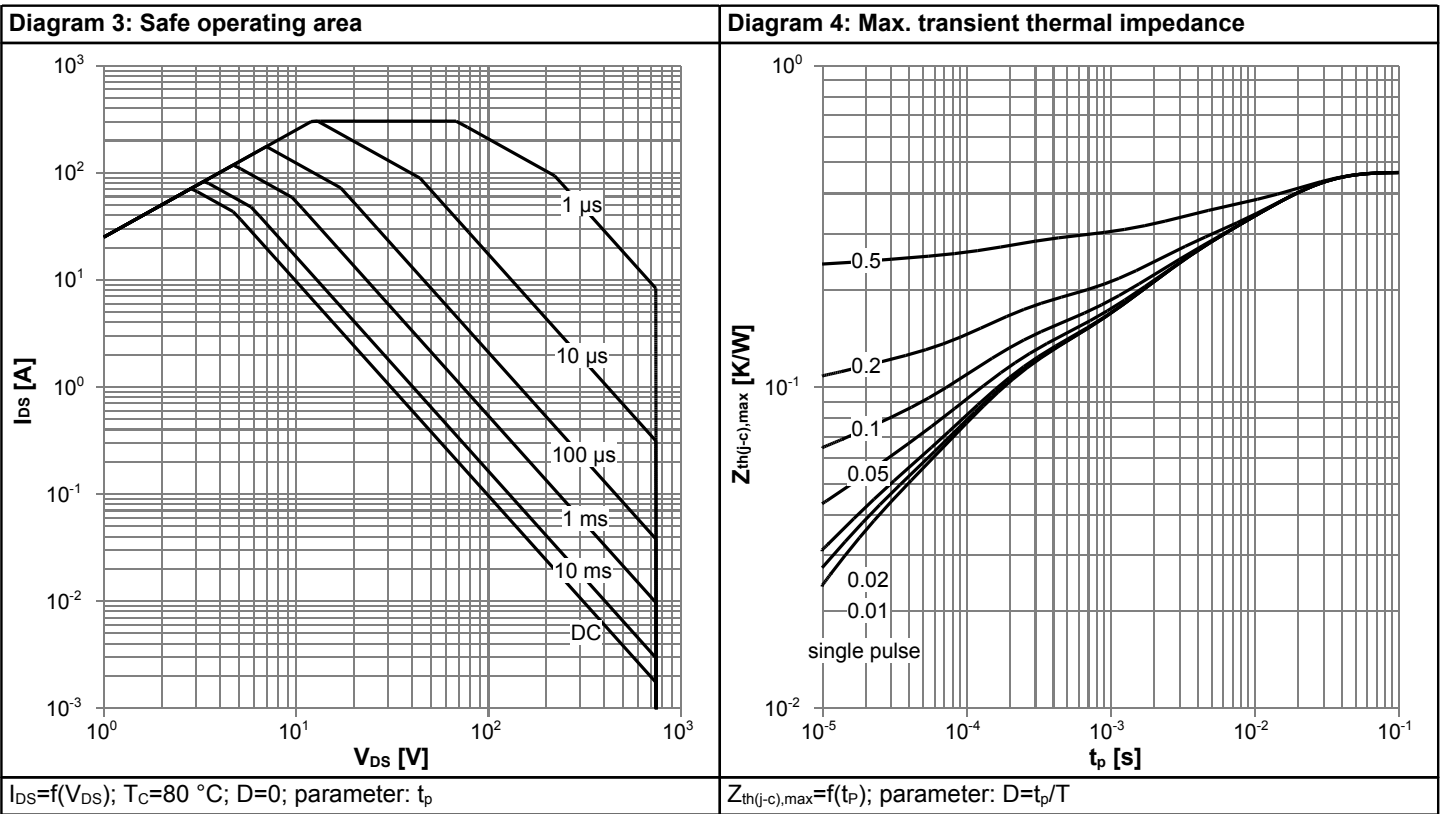
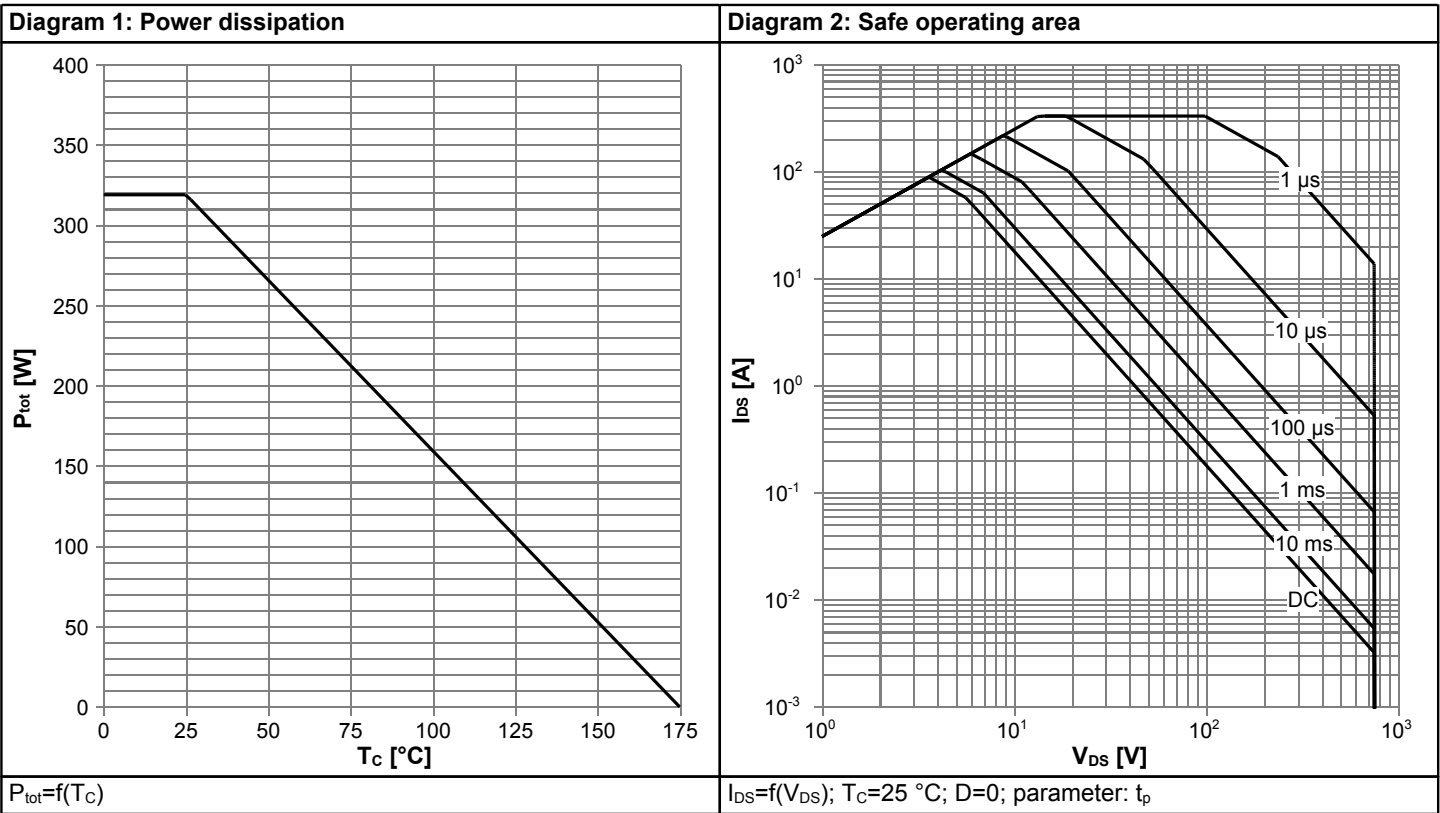
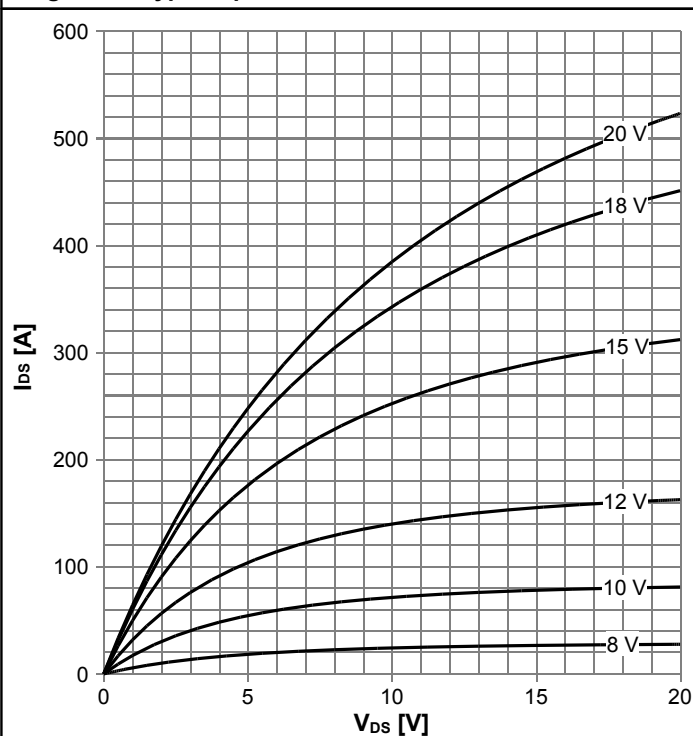
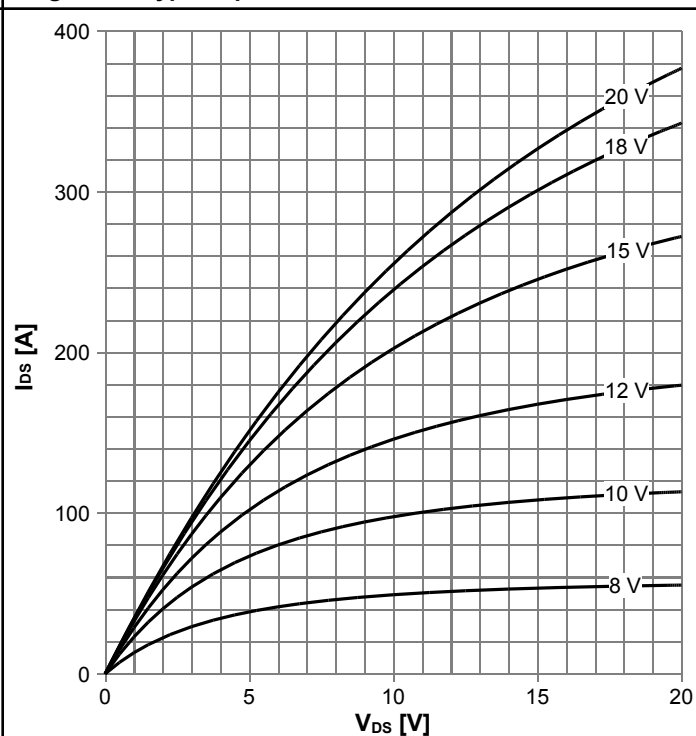


Diagram 5: Typ. output characteristics



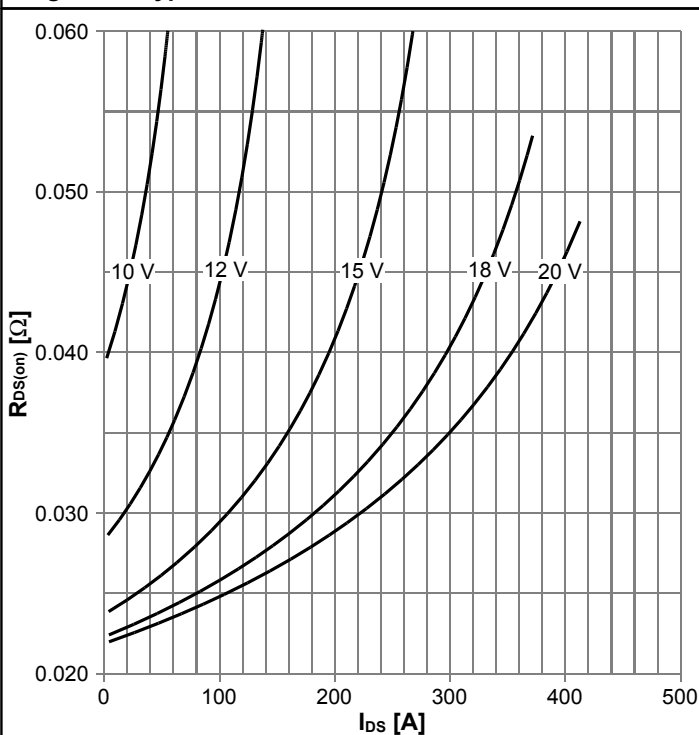
$I_{DS}=f(V_{DS})$ ;  $T_J=25\text{ °C}$ ; parameter:  $V_{GS}$

Diagram 6: Typ. output characteristics



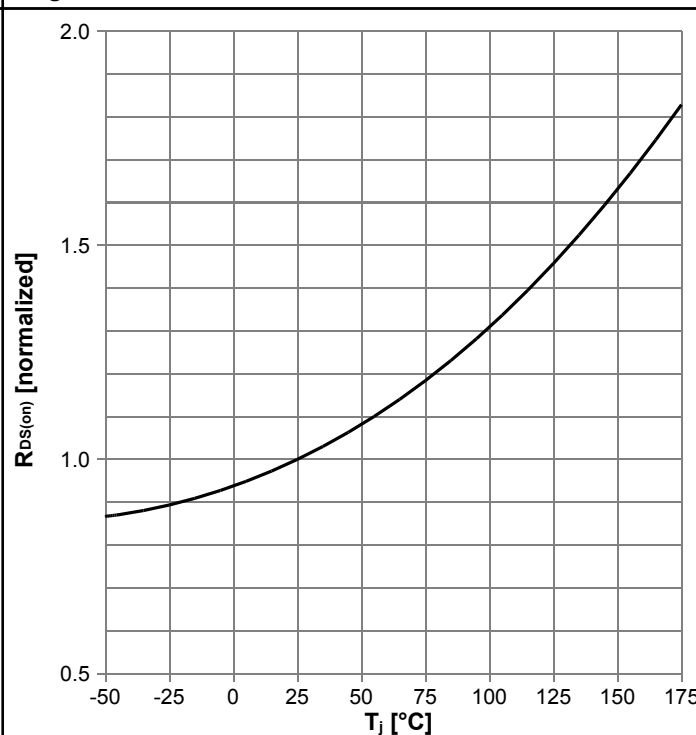
$I_{DS}=f(V_{DS})$ ;  $T_J=175\text{ °C}$ ; parameter:  $V_{GS}$

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



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

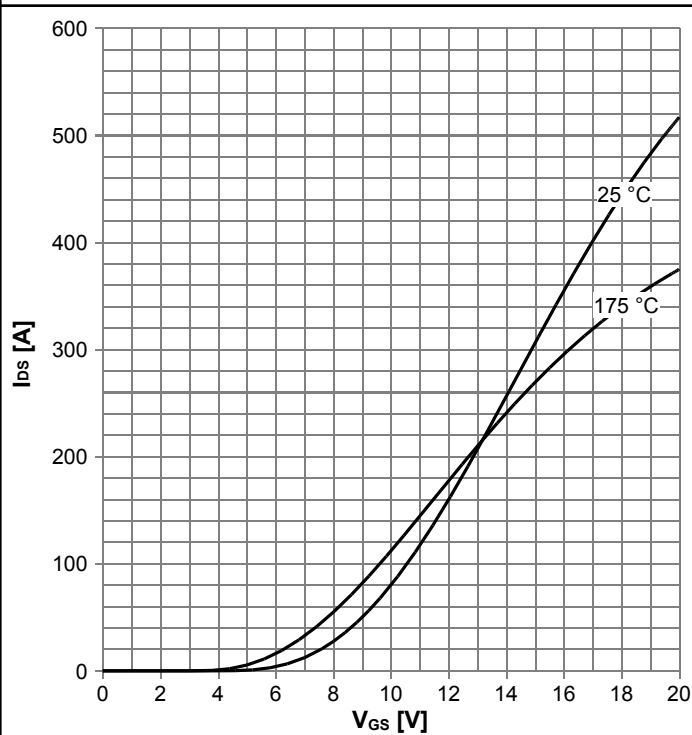
Diagram 8: Drain-source on-state resistance



$R_{DS(on)}=f(T_J)$ ;  $I_D=41.5\text{ A}$ ;  $V_{GS}=18\text{ V}$

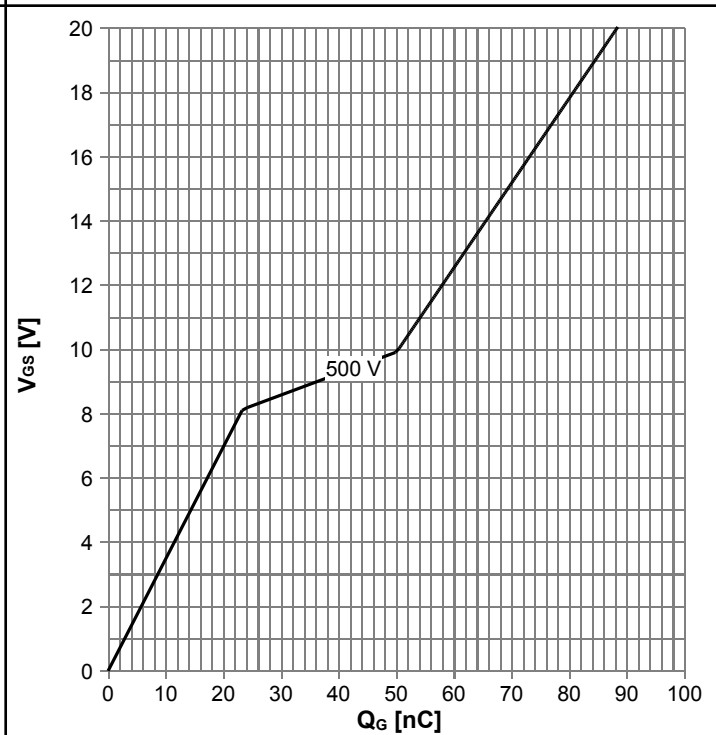
CoolSiC™ Power Device 750 V G1  
IMZA75R016M1H

Diagram 9: Typ. transfer characteristics



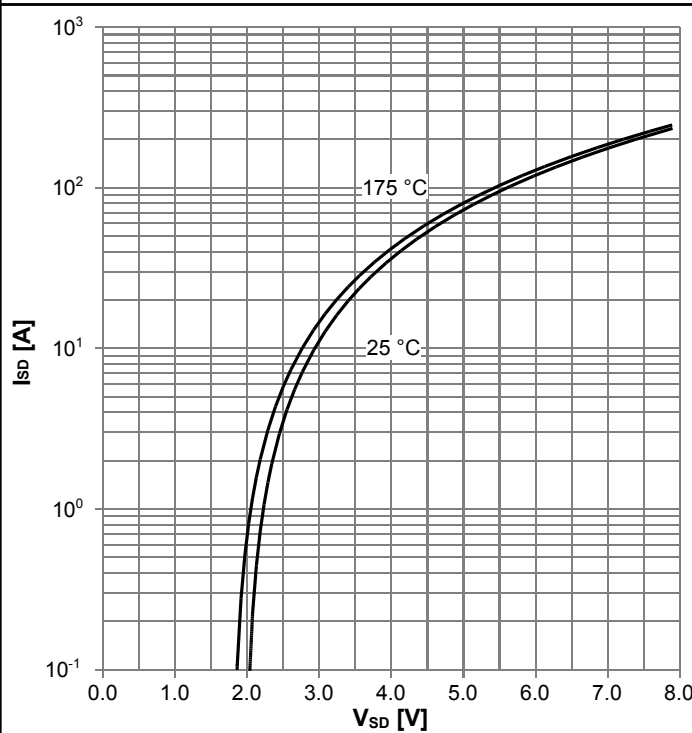
$I_{DS}=f(V_{GS})$ ;  $V_{DS}=20$  V; parameter:  $T_j$

Diagram 10: Typ. gate charge



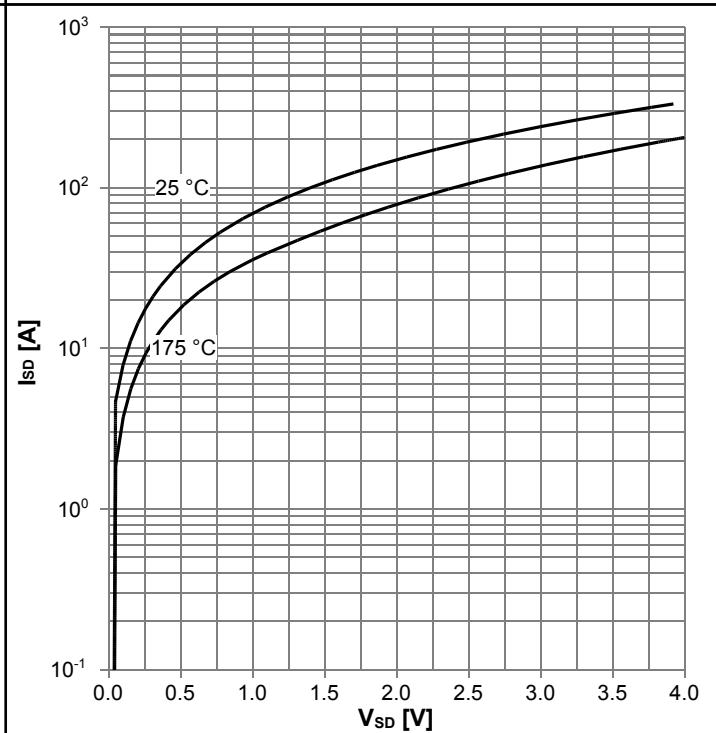
$V_{GS}=f(Q_G)$ ;  $I_D=41.5$  A pulsed; parameter:  $V_{DD}$

Diagram 11: Typ. reverse drain current characteristics



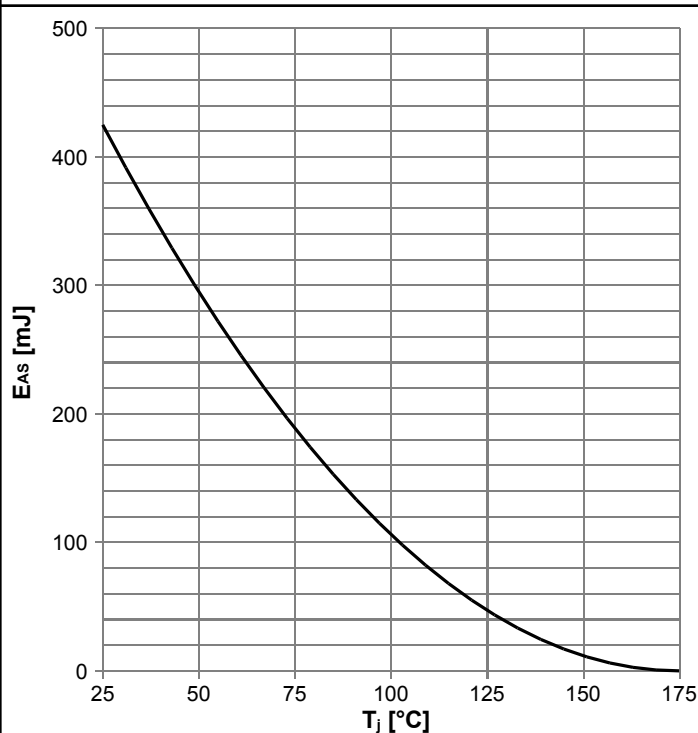
$I_{SD}=f(V_{SD})$ ;  $V_{GS}=0$  V; parameter:  $T_j$

Diagram 12: Typ. reverse drain current characteristics



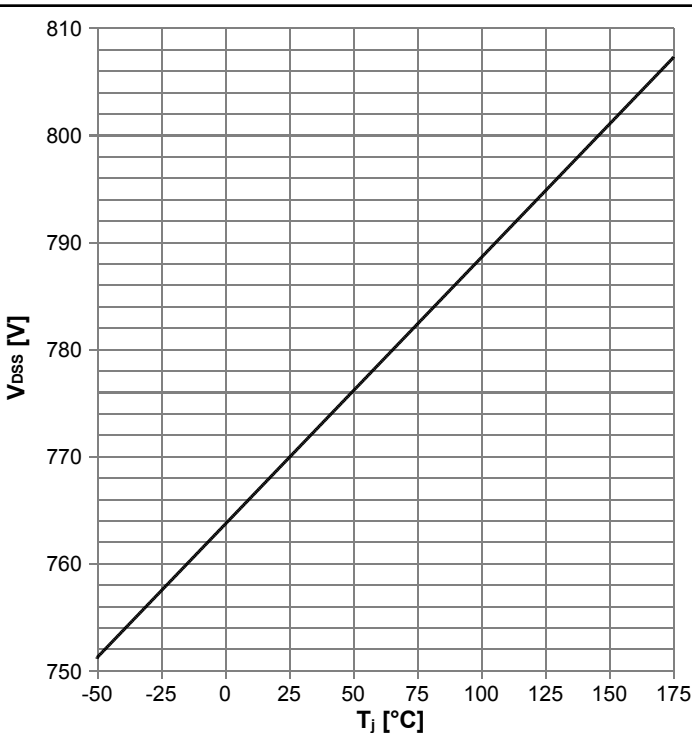
$I_{SD}=f(V_{SD})$ ;  $V_{GS}=18$  V; parameter:  $T_j$

Diagram 13: Avalanche energy



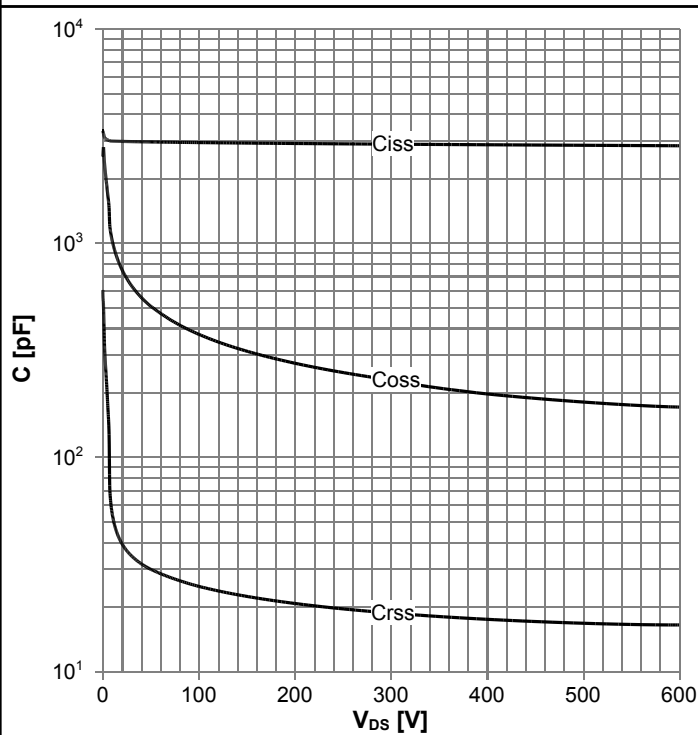
$E_{AS}=f(T_J)$ ;  $I_D=15.9$  A;  $V_{DD}=50$  V

Diagram 14: Drain-source breakdown voltage



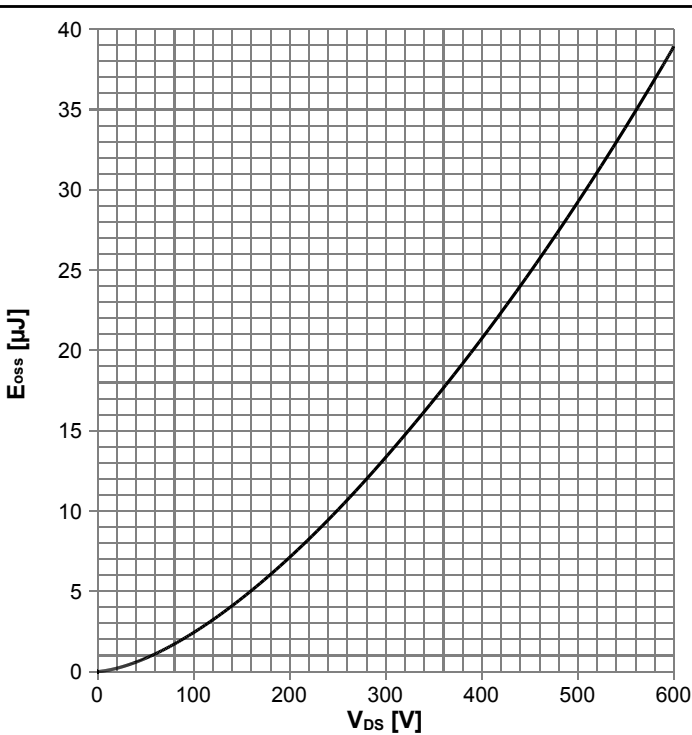
$V_{DSS}=f(T_J)$ ;  $I_D=1.49$  mA

Diagram 15: Typ. capacitances

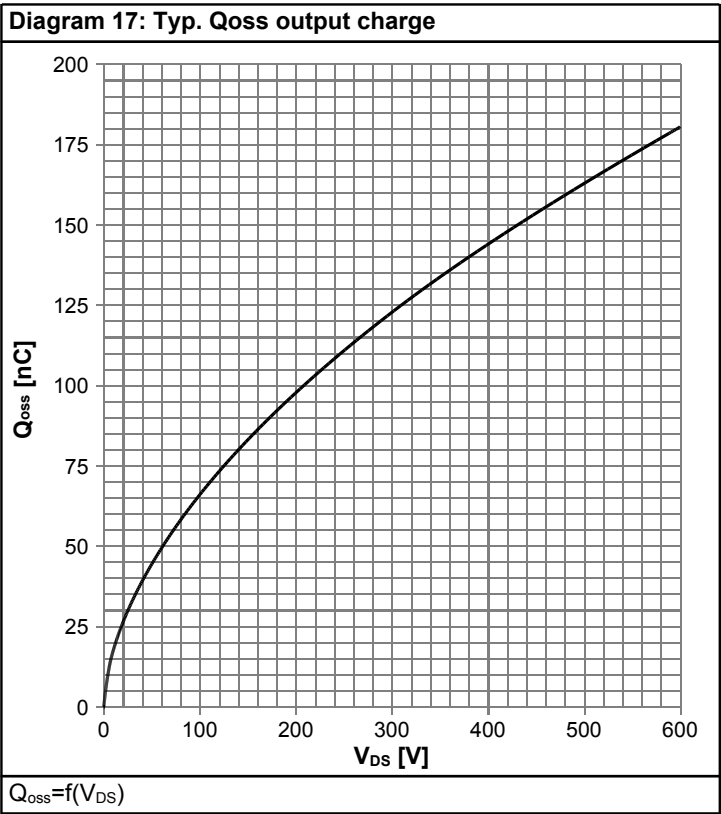


$C=f(V_{DS})$ ;  $V_{GS}=0$  V;  $f=250$  kHz

Diagram 16: Typ. Coss stored energy



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



6 Test Circuits

Table 9 Body diode characteristics

| Test circuit for body diode characteristics | Body diode recovery waveform |
|---------------------------------------------|------------------------------|
|                                             |                              |

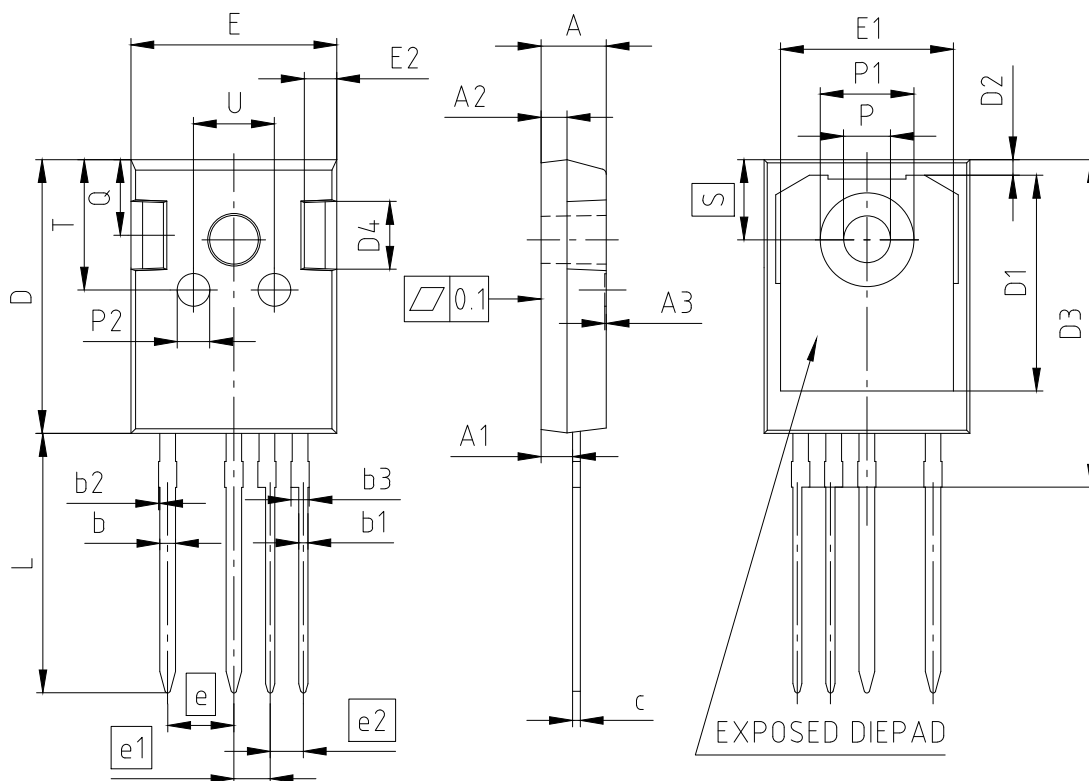
Table 10 Switching times

| Switching times test circuit for inductive load | Switching times waveform |
|-------------------------------------------------|--------------------------|
|                                                 |                          |

Table 11 Unclamped inductive load

| Unclamped inductive load test circuit | Unclamped inductive waveform |
|---------------------------------------|------------------------------|
|                                       |                              |

## 7 Package Outlines



NOTES:

DIMENSIONS DO NOT INCLUDE MOLD FLASH, PROTRUSION OR GATE BURRS

| PACKAGE - GROUP<br>NUMBER: PG-TO247-4-U02 |             |       |            |             |       |
|-------------------------------------------|-------------|-------|------------|-------------|-------|
| DIMENSIONS                                | MILLIMETERS |       | DIMENSIONS | MILLIMETERS |       |
|                                           | MIN.        | MAX.  |            | MIN.        | MAX.  |
| A                                         | 4.90        | 5.10  | E          | 15.70       | 15.90 |
| A1                                        | 2.31        | 2.51  | E1         | 13.10       | 13.50 |
| A2                                        | 1.90        | 2.10  | E2         | 2.40        | 2.60  |
| A3                                        | 0.05        | 0.25  | e          | 5.08        |       |
| b                                         | 1.10        | 1.30  | e1         | 2.79        |       |
| b1                                        | 0.65        | 0.79  | e2         | 2.54        |       |
| b2                                        | ---         | 0.20  | N          | 4           |       |
| b3                                        | 1.34        | 1.44  | L          | 19.80       | 20.10 |
| c                                         | 0.58        | 0.66  | øP         | 3.50        | 3.70  |
| D                                         | 20.90       | 21.10 | øP1        | 7.00        | 7.40  |
| D1                                        | 16.25       | 16.85 | øP2        | 2.40        | 2.60  |
| D2                                        | 1.05        | 1.35  | Q          | 5.60        | 6.00  |
| D3                                        | 24.97       | 25.27 | S          | 6.15        |       |
| D4                                        | 4.90        | 5.10  | T          | 9.80        | 10.20 |
|                                           |             |       | U          | 6.00        | 6.40  |

Figure 1 Outline PG-TO247-4, dimensions in mm

## **8 Appendix A**

### **Table 12 Related Links**

- IFX CoolSiC™ Power Device 750 V G1 Webpage: [www.infineon.com](http://www.infineon.com)
- IFX CoolSiC™ Power Device 750 V G1 application note: [www.infineon.com](http://www.infineon.com)
- IFX CoolSiC™ Power Device 750 V G1 simulation model: [www.infineon.com](http://www.infineon.com)
- IFX Design tools: [www.infineon.com](http://www.infineon.com)

## Revision History

IMZA75R016M1H

**Revision: 2024-01-30, Rev. 2.0**

Previous Revision

| Revision | Date       | Subjects (major changes since last revision) |
|----------|------------|----------------------------------------------|
| 2.0      | 2024-01-30 | Release of final version                     |

### Trademarks

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