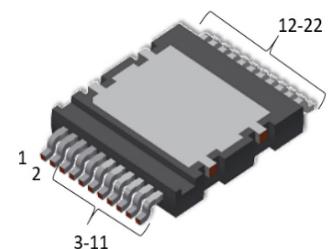


## Final datasheet

### CoolSiC™ Automotive MOSFET 1200 V in HDSOP-22-3 package

#### Features

- $V_{DSS} = 1200 \text{ V}$  at  $T_{vj} = -55\ldots175^\circ\text{C}$
- $I_{DC} = 34 \text{ A}$  at  $T_C = 25^\circ\text{C}$
- $R_{DS(on)} = 80 \text{ m}\Omega$  at  $V_{GS} = 20 \text{ V}$ ,  $T_{vj} = 25^\circ\text{C}$
- New performance-optimized chip technology (Gen1p) with improved  $R_{DS(on)} * A$
- 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  $Q_G$  for lower driving power and losses
- Increased recommended turn-on voltage ( $V_{GS(on)} = 20 \text{ V}$ ) for lower  $R_{DS(on)}$
- .XT die attach technology for best in class thermal performance
- Low package stray inductance for faster and cleaner switching
- Drive (Kelvin) Source pin for better gate control and reduced switching losses
- Creepage distance > 4.75 mm fitting  $V_{rms(max)} > 950 \text{ V}$  based on IEC60664 for material group I, pollution degree 2
- SMT package for automated assembly and reduced system costs
- Low  $R_{th}$  Top-Side Cooled package for best thermal performance and power density



Halogen-free

AEC-Q101 Qualified

Lead-free

RoHS

#### Potential applications

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

#### Product validation

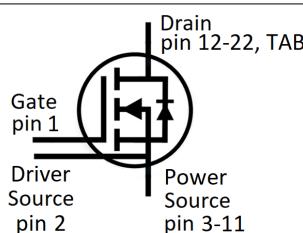
- Qualified for Automotive Applications. Product Validation according to AEC-Q100/101

#### Description

Pin definition:

- Pin 1 - Gate
- Pin 2 - Drive Source
- Pin 3...11 - Power Source
- Pin 12...22, TAB - Drain

Note: the drive source and power source pins are not exchangeable, their exchange might lead to malfunction



Type	Package	Marking
AIMCQ120R080M1T	PG-HDSOP-22-3	12A080M1

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1 Package

## 1 Package

**Table 1 Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	
Storage temperature	$T_{\text{stg}}$		-55		150	°C
Soldering temperature	$T_{\text{sold}}$				260	°C
MOSFET/body diode thermal resistance, junction-case <sup>1)</sup>	$R_{\text{th(j-c)}}$			0.54	0.71	K/W

1) not subject to production test - verified by design/characterization

## 2 MOSFET

**Table 2 Maximum rated values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>		<b>Values</b>		<b>Unit</b>
Drain-source voltage <sup>1)</sup>	$V_{\text{DSS}}$	$T_{\text{vj}} = -55 \dots 175 \text{ °C}$		1200		V
Continuous DC drain current for $R_{\text{th(j-c,max)}}$ , limited by $T_{\text{vj(max)}}$ <sup>2)</sup>	$I_{\text{DDC}}$	$V_{\text{GS}} = 20 \text{ V}$	$T_c = 25 \text{ °C}$	34		A
			$T_c = 100 \text{ °C}$	24		
Peak drain current, $t_p$ limited by $T_{\text{vj(max)}}$ <sup>2)</sup>	$I_{\text{DM}}$	$V_{\text{GS}} = 20 \text{ V}$		86		A
Gate-source voltage, max. transient voltage <sup>3)</sup>	$V_{\text{GS}}$	$t_p \leq 0.5 \mu\text{s}, D < 0.01$		-10/25		V
Gate-source voltage, max. static voltage <sup>3)</sup>	$V_{\text{GS}}$			-5/23		V
Avalanche energy, single pulse	$E_{\text{AS}}$	$I_D = 7.6 \text{ A}, V_{\text{DD}} = 50 \text{ V}, L = 4.76 \text{ mH}$		136		mJ
Power dissipation, limited by $T_{\text{vj(max)}}$ <sup>2)</sup>	$P_{\text{tot}}$		$T_c = 25 \text{ °C}$	211		W
			$T_c = 100 \text{ °C}$	106		

1) tested at  $T_{\text{vj}}=25^\circ\text{C}$ , verified by design/characterization over full temperature range

2) not subject to production test - verified by design/characterization

3) **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**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>		<b>Values</b>		<b>Unit</b>
Recommended turn-on gate voltage	$V_{\text{GS(on)}}$			20		V
Recommended turn-off gate voltage	$V_{\text{GS(off)}}$			0		V

**Table 4 Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>	
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>		
Drain-source on-state resistance	$R_{DS(on)}$	$I_D = 10 \text{ A}$	$T_{vj} = 25^\circ\text{C}$ , $V_{GS(on)} = 20 \text{ V}$		80	100	$\text{m}\Omega$
			$T_{vj} = 100^\circ\text{C}$ , $V_{GS(on)} = 20 \text{ V}$		112		
			$T_{vj} = 175^\circ\text{C}$ , $V_{GS(on)} = 20 \text{ V}$		159		
			$T_{vj} = 25^\circ\text{C}$ , $V_{GS(on)} = 18 \text{ V}$		84		
Gate-source threshold voltage	$V_{GS(th)}$	$I_D = 3.3 \text{ mA}$ , $V_{DS} = V_{GS}$ (tested after 1 ms pulse at $V_{GS} = 20 \text{ V}$ )	$T_{vj} = 25^\circ\text{C}$	3.7	4.4	5.1	$\text{V}$
			$T_{vj} = 175^\circ\text{C}$		3.6		
Zero gate-voltage drain current	$I_{DSS}$	$V_{DS} = 1200 \text{ V}$ , $V_{GS} = 0 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		0.3	10	$\mu\text{A}$
			$T_{vj} = 175^\circ\text{C}$		10		
Gate leakage current	$I_{GSS}$	$V_{DS} = 0 \text{ V}$	$V_{GS} = 25 \text{ V}$			100	$\text{nA}$
			$V_{GS} = -10 \text{ V}$			-100	
Forward transconductance	$g_{fs}$	$I_D = 10 \text{ A}$ , $V_{DS} = 20 \text{ V}$			6.2		$\text{s}$
Short-circuit withstand time <sup>1)</sup>	$t_{SC}$	$V_{DD} \leq 800 \text{ V}$ , $V_{DS,\text{peak}} < 1200 \text{ V}$ , $T_{vj(\text{start})} = 25^\circ\text{C}$ , $R_{G,\text{ext}} = 2 \Omega$	$V_{GS(on)} = 20 \text{ V}$		1.5		$\mu\text{s}$
			$V_{GS(on)} = 18 \text{ V}$		2		
			$V_{GS(on)} = 15 \text{ V}$		2.5		
Internal gate resistance	$R_{G,\text{int}}$	$f = 1 \text{ MHz}$ , $V_{AC} = 25 \text{ mV}$			3.8		$\Omega$
Input capacitance	$C_{iss}$	$V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$			671		$\text{pF}$
Output capacitance	$C_{oss}$	$V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$			35		$\text{pF}$
Reverse transfer capacitance	$C_{rss}$	$V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$			2		$\text{pF}$
$C_{oss}$ stored energy	$E_{oss}$	$V_{DD} = 800 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 100 \text{ kHz}$ , $V_{AC} = 25 \text{ mV}$			14		$\mu\text{J}$
Total gate charge	$Q_G$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse			24		$\text{nC}$
Plateau gate charge	$Q_{GS(\text{pl})}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse			7		$\text{nC}$
Gate-to-drain charge	$Q_{GD}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , turn-on pulse			4		$\text{nC}$
Turn-on delay time	$t_{d(on)}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		6.6		$\text{ns}$
			$T_{vj} = 175^\circ\text{C}$		6.4		

(table continues...)

**Table 4 (continued) Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>	
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>		
Rise time	$t_r$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		4	ns	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		4.7		
Turn-off delay time	$t_{d(\text{off})}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		11.8	ns	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		12.5		
Fall time	$t_f$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		11.1	ns	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		12		
Turn-on energy	$E_{\text{on}}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		71	$\mu\text{J}$	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		91		
Turn-off energy	$E_{\text{off}}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		30	$\mu\text{J}$	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		30		
Total switching energy	$E_{\text{tot}}$	$V_{DD} = 800 \text{ V}$ , $I_D = 10 \text{ A}$ , $V_{GS} = 0/20 \text{ V}$ , $R_{G,\text{ext}} = 2 \Omega$ , $L_\sigma = 13 \text{ nH}$ , diode: body diode at $V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		101	$\mu\text{J}$	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		121		
Virtual junction temperature	$T_{vj}$			-55		175	°C

1) not subject to production test - verified by design/characterization

**Note:** Characteristics at  $T_{vj} = 25 \text{ }^\circ\text{C}$ , unless otherwise specified.

### 3 Body diode (MOSFET)

**Table 5 Maximum rated values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>		<b>Values</b>	<b>Unit</b>
Drain-source voltage <sup>1)</sup>	$V_{DSS}$	$T_{vj} = -55 \dots 175 \text{ }^\circ\text{C}$		1200	V
Continuous reverse drain current for $R_{\text{th(j-c,max)}}$ , limited by $T_{vj(\text{max})}$ <sup>2)</sup>	$I_{\text{SDC}}$	$V_{GS} = 0 \text{ V}$	$T_c = 25 \text{ }^\circ\text{C}$	22.7	A
			$T_c = 100 \text{ }^\circ\text{C}$	20.5	
Peak reverse drain current, $t_p$ limited by $T_{vj(\text{max})}$ <sup>2)</sup>	$I_{\text{SM}}$	$V_{GS} = 0 \text{ V}$		22.7	A

1) tested at  $T_{vj}=25 \text{ }^\circ\text{C}$ , verified by design/characterization over full temperature range

**3 Body diode (MOSFET)**

2) not subject to production test - verified by design/characterization

**Table 6 Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	
Drain-source reverse voltage	$V_{SD}$	$I_{SD} = 10 \text{ A}, V_{GS} = 0 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		3.9	5
			$T_{vj} = 100 \text{ }^\circ\text{C}$		3.8	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		3.7	
MOSFET forward recovery charge	$Q_{fr}$	$V_{DD} = 800 \text{ V},$ $I_{SD} = 10 \text{ A}, V_{GS} = 0 \text{ V},$ $-di_{SD}/dt = 1000 \text{ A}/\mu\text{s}, Q_{fr}$ includes also $Q_c$	$T_{vj} = 25 \text{ }^\circ\text{C}$		134	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		190	
MOSFET peak forward recovery current	$I_{frm}$	$V_{DD} = 800 \text{ V},$ $I_{SD} = 10 \text{ A}, V_{GS} = 0 \text{ V},$ $-di_{SD}/dt = 1000 \text{ A}/\mu\text{s}, Q_{fr}$ includes also $Q_c$	$T_{vj} = 25 \text{ }^\circ\text{C}$		8.1	
			$T_{vj} = 175 \text{ }^\circ\text{C}$		8.6	
Virtual junction temperature	$T_{vj}$			-55		175
						${}^\circ\text{C}$

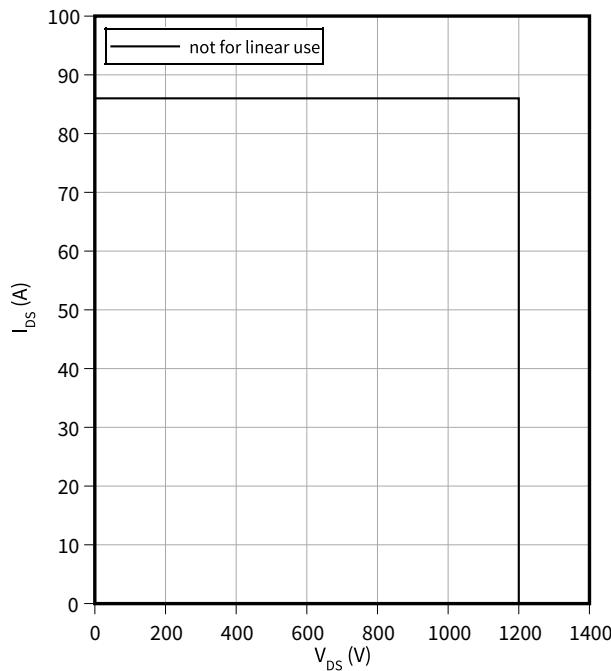
4 Characteristics diagrams

## 4 Characteristics diagrams

### Reverse bias safe operating area (RBSOA)

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

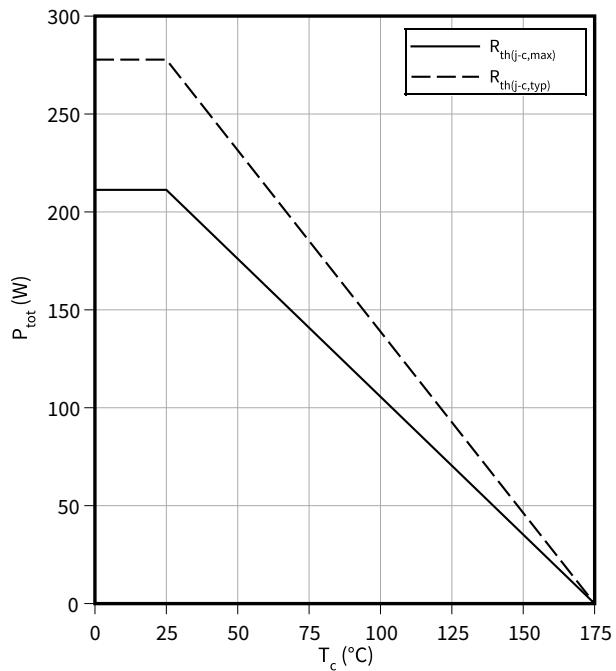
$T_{vj} \leq 175^\circ\text{C}$ ,  $V_{GS} = 0/20\text{ V}$ ,  $T_c = 25^\circ\text{C}$



### Power dissipation as a function of case temperature

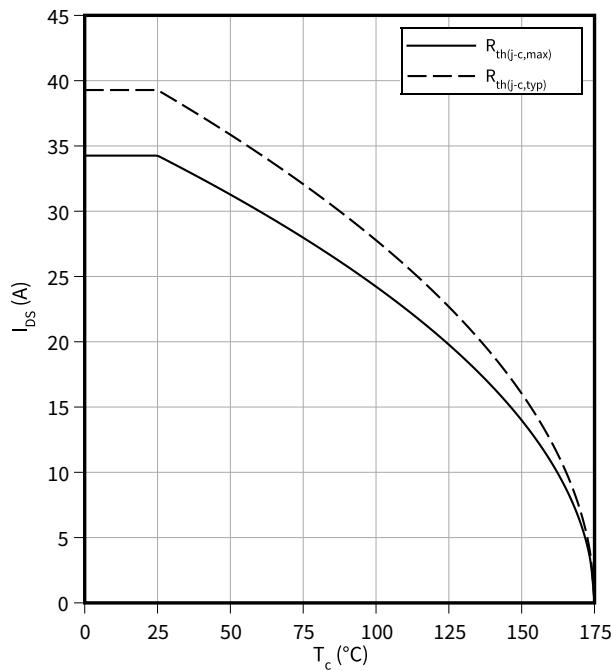
$$P_{tot} = f(T_c)$$

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



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

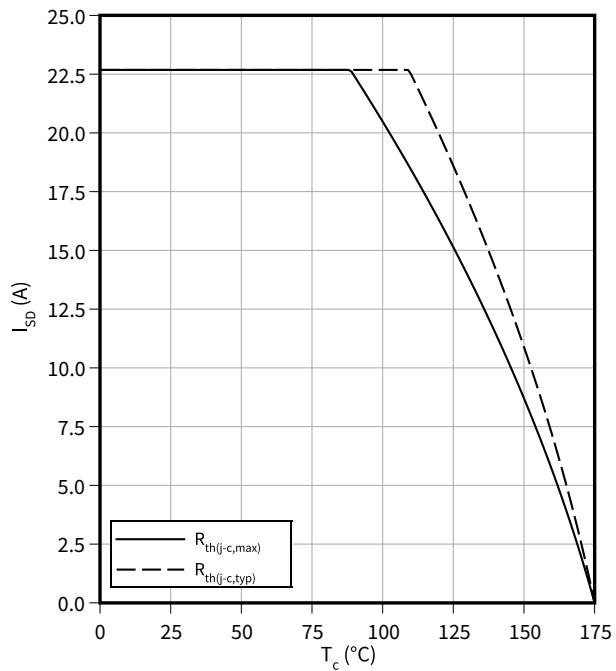
$$I_{DS} = f(T_c)$$



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

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

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

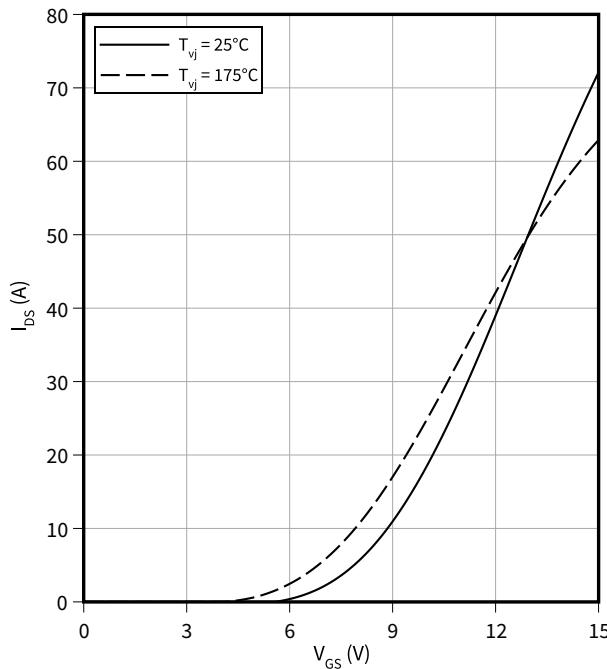


4 Characteristics diagrams

**Typical transfer characteristic**

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

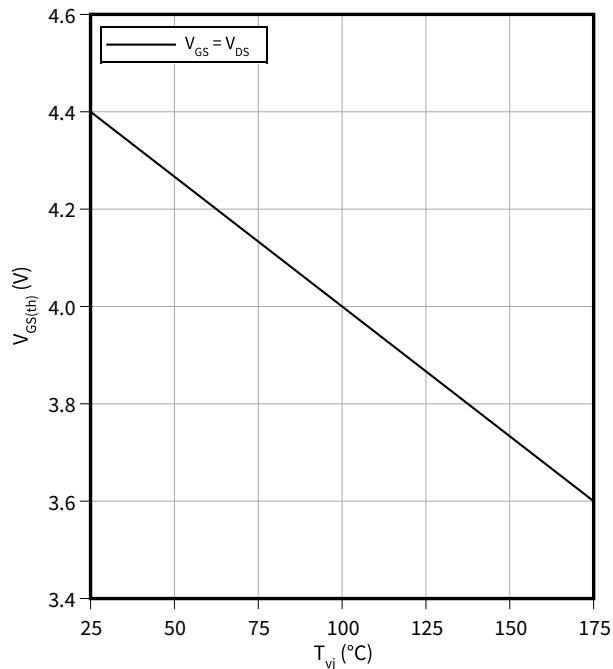
$$V_{DS} = 20 \text{ V}, t_p = 20 \mu\text{s}$$



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

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

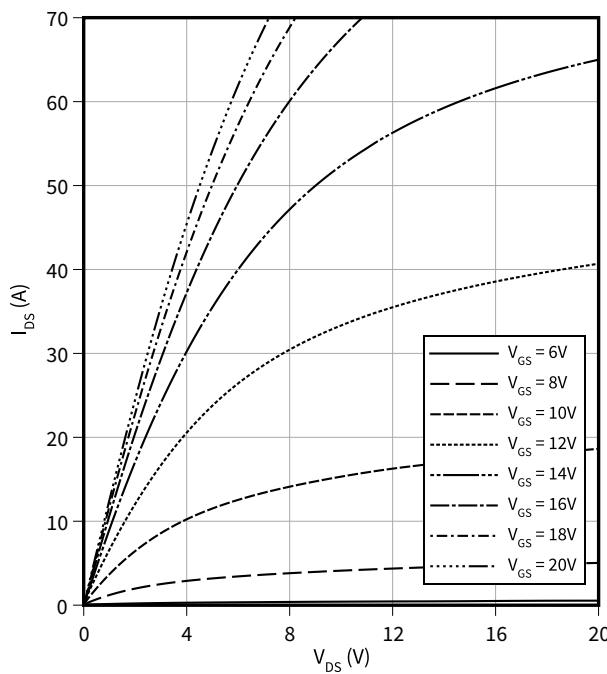
$$I_D = 3.3 \text{ mA}$$



**Typical output characteristic, V<sub>GS</sub> as parameter**

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

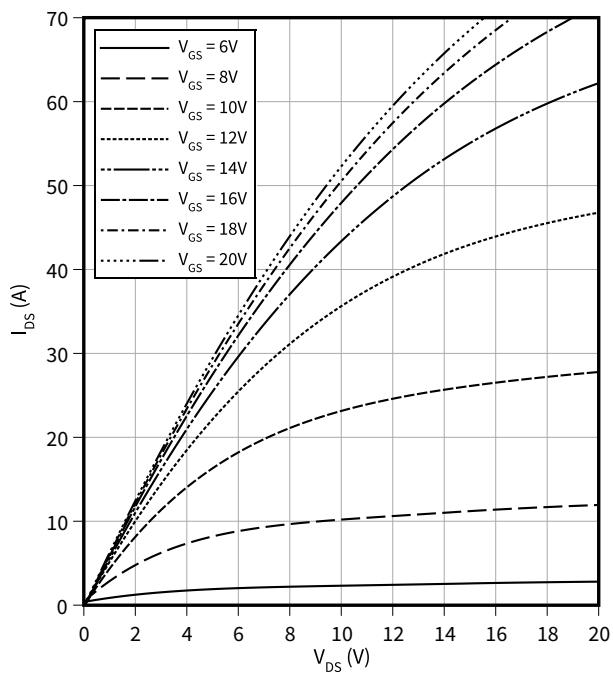
$$T_{vj} = 25 \text{ °C}, t_p = 20 \mu\text{s}$$



**Typical output characteristic, V<sub>GS</sub> as parameter**

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

$$T_{vj} = 175 \text{ °C}, t_p = 20 \mu\text{s}$$

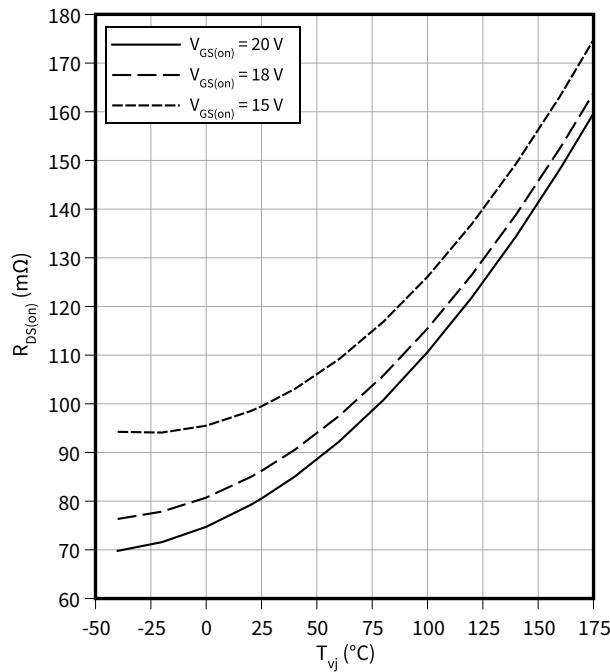


4 Characteristics diagrams

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

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

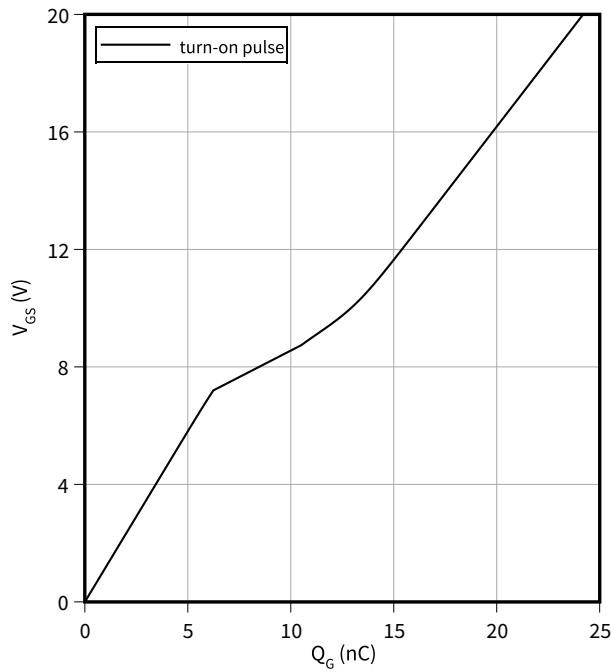
$$I_D = 10 \text{ A}$$



**Typical gate charge**

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

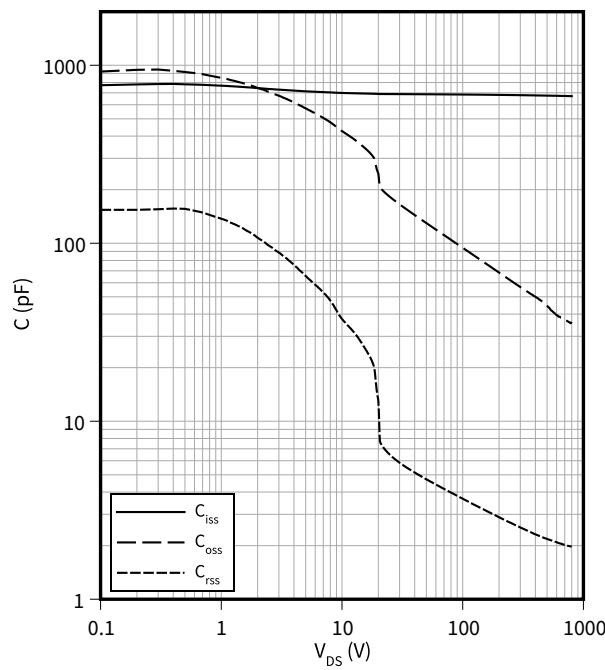
$$I_D = 10 \text{ A}, V_{DS} = 800 \text{ V}$$



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

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

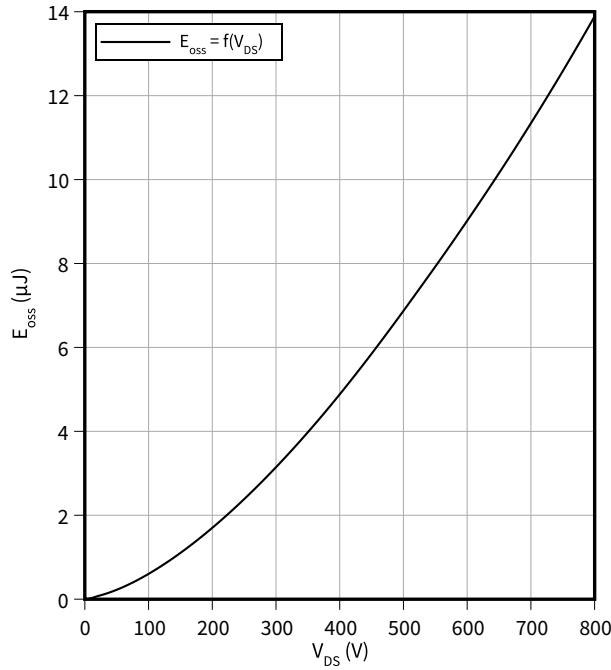
$$f = 100 \text{ kHz}, V_{GS} = 0 \text{ V}$$



**Typical C<sub>oss</sub> stored energy**

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

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

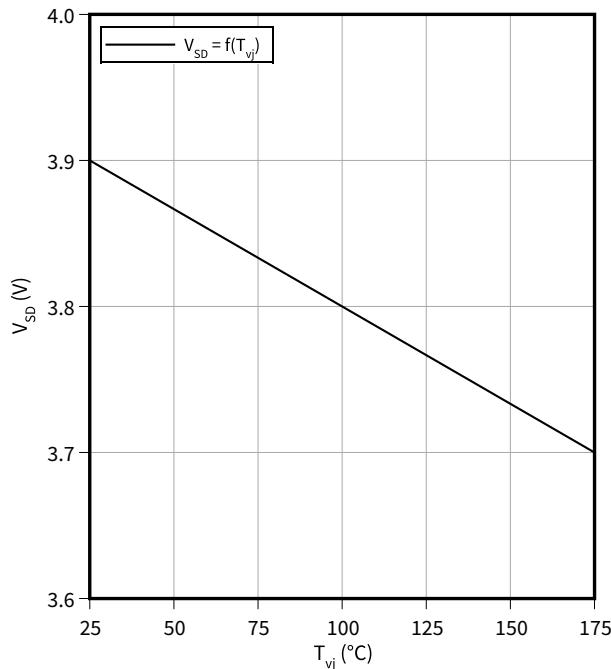


4 Characteristics diagrams

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

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

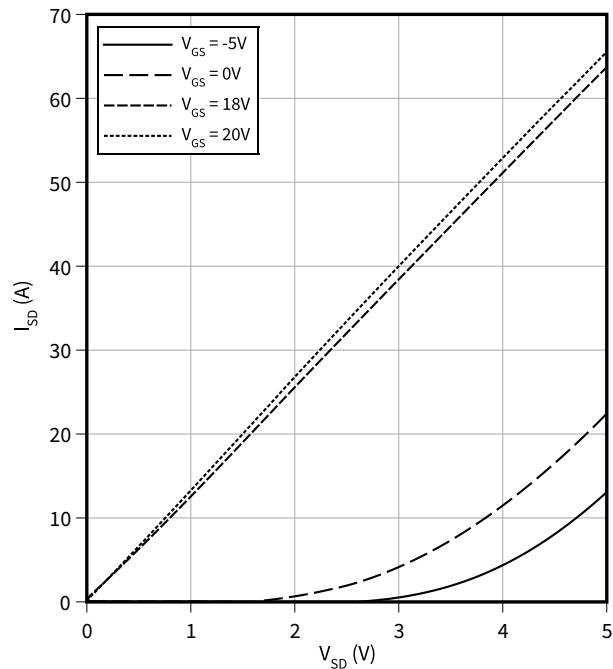
$$I_{SD} = 10 \text{ A}, V_{GS} = 0 \text{ V}$$



**Typical reverse drain current as function of reverse drain voltage, V<sub>GS</sub> as parameter**

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

$$T_{vj} = 25 \text{ °C}, t_p = 20 \mu\text{s}$$



**Typical reverse drain current as function of reverse drain voltage, V<sub>GS</sub> as parameter**

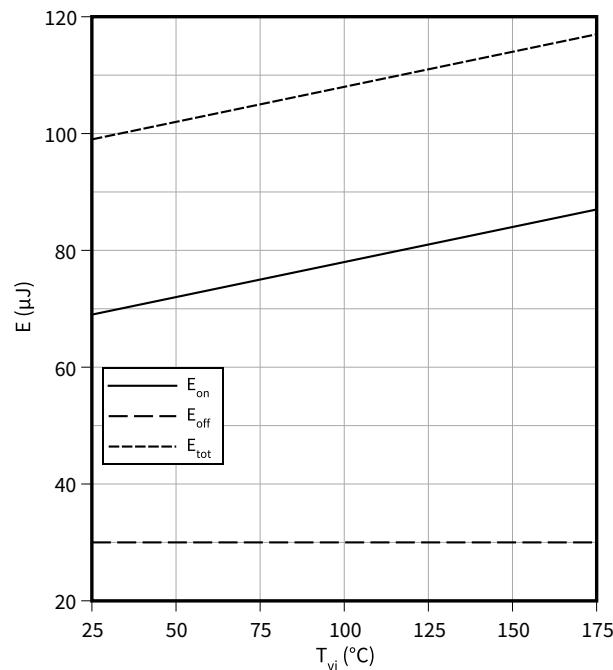
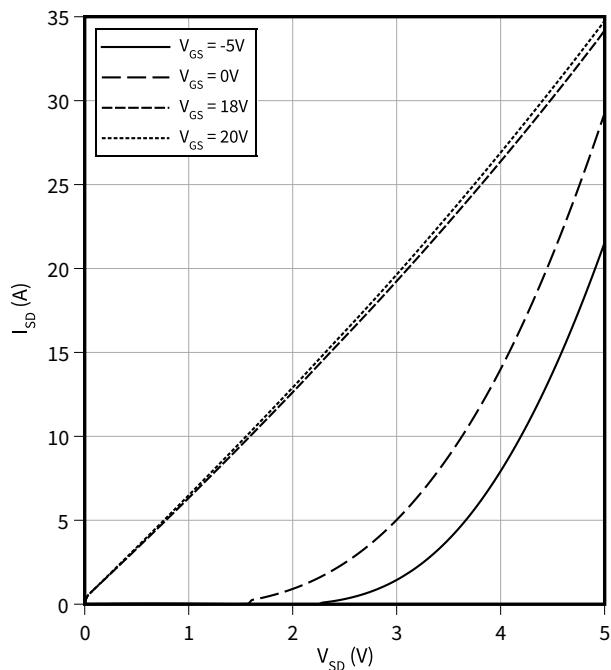
$$I_{SD} = f(V_{SD})$$

$$T_{vj} = 175 \text{ °C}, t_p = 20 \mu\text{s}$$

**Typical switching energy as a function of junction temperature, test circuit in Fig. F, 2nd device own body diode: V<sub>GS</sub> = 0 V**

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

$$V_{GS} = 0/20 \text{ V}, I_D = 10 \text{ A}, R_{G,ext} = 2 \Omega, V_{DD} = 800 \text{ V}$$

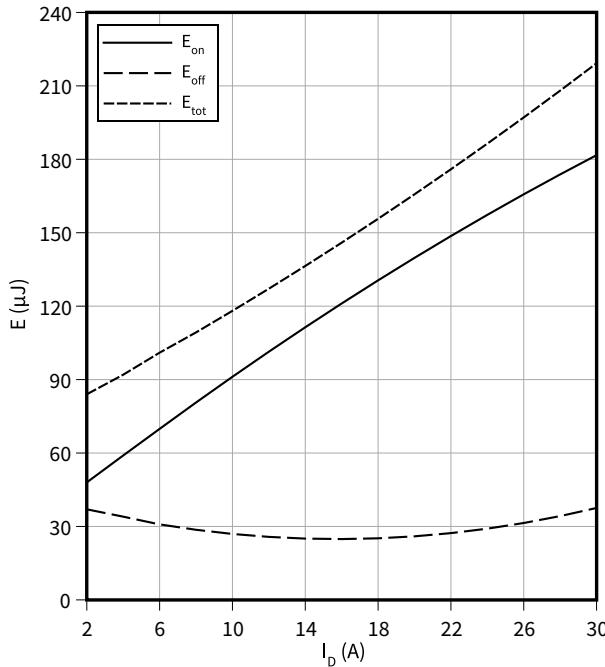


4 Characteristics diagrams

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

$$E = f(I_D)$$

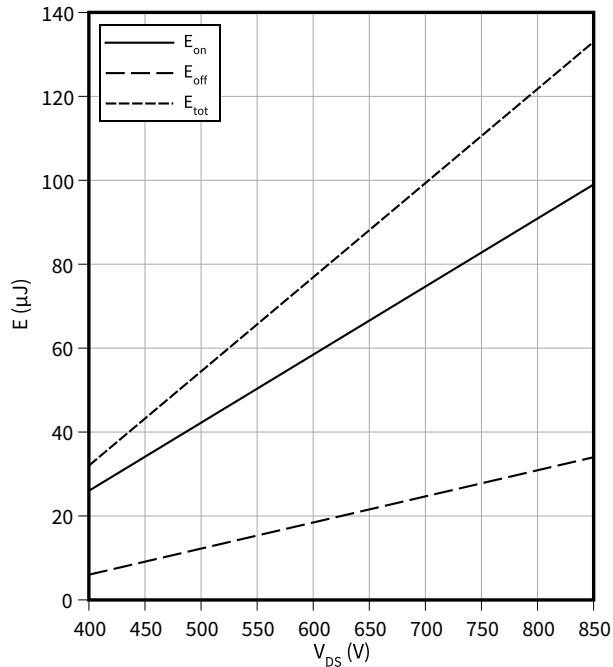
$V_{GS} = 0/20 \text{ V}$ ,  $T_{vj} = 175 \text{ }^\circ\text{C}$ ,  $R_{G,\text{ext}} = 2 \Omega$ ,  $V_{DD} = 800 \text{ V}$



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

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

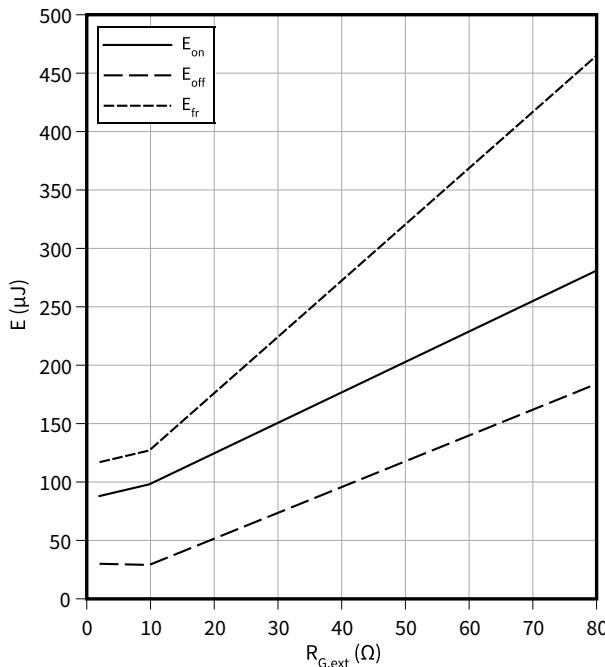
$V_{GS} = 0/20 \text{ V}$ ,  $I_D = 10 \text{ A}$ ,  $T_{vj} = 175 \text{ }^\circ\text{C}$ ,  $R_{G,\text{ext}} = 2 \Omega$



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

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

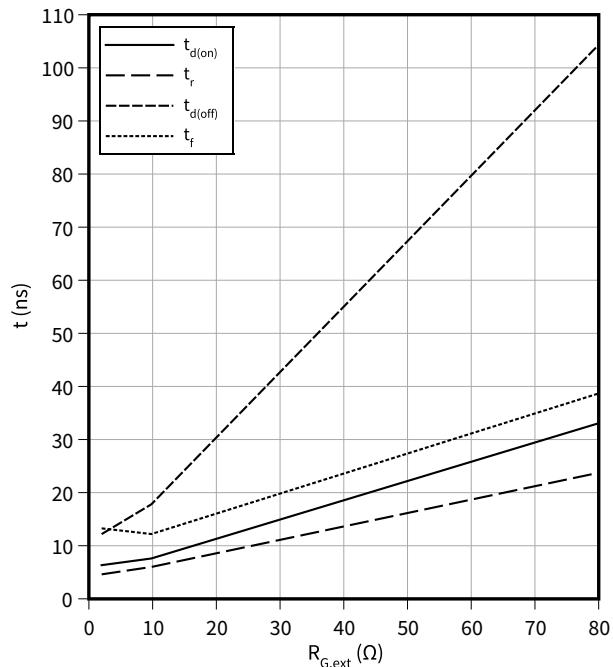
$V_{GS} = 0/20 \text{ V}$ ,  $I_D = 10 \text{ A}$ ,  $T_{vj} = 175 \text{ }^\circ\text{C}$ ,  $V_{DD} = 800 \text{ V}$



**Typical switching times as a function of gate resistance**

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

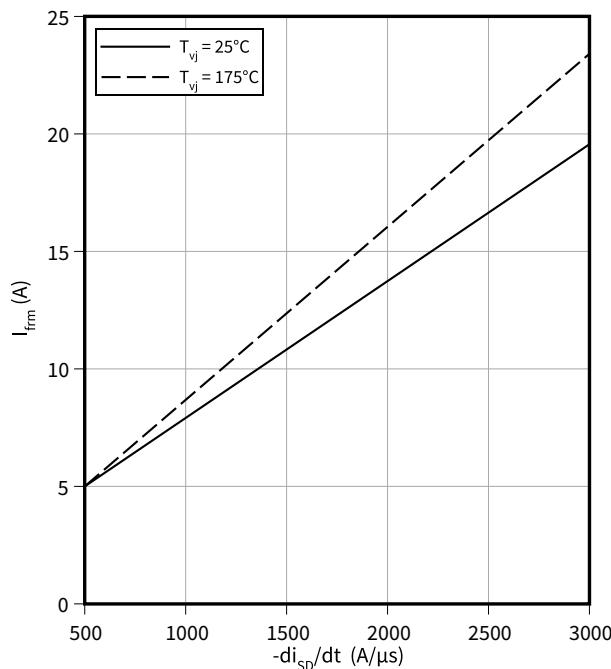
$I_D = 10 \text{ A}$ ,  $V_{GS} = 0/20 \text{ V}$ ,  $T_{vj} = 175 \text{ }^\circ\text{C}$ ,  $V_{DD} = 800 \text{ V}$



4 Characteristics diagrams

**Typical MOSFET peak forward recovery current as a function of reverse drain current slope**

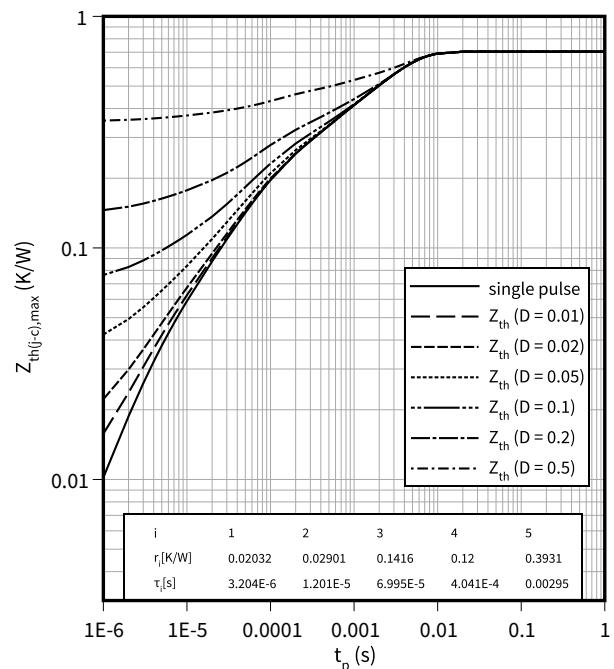
$I_{frm} = f(-di_{SD}/dt)$   
 $V_{GS} = 0/20 \text{ V}$ ,  $I_{SD} = 10 \text{ A}$ ,  $V_{DD} = 800 \text{ V}$



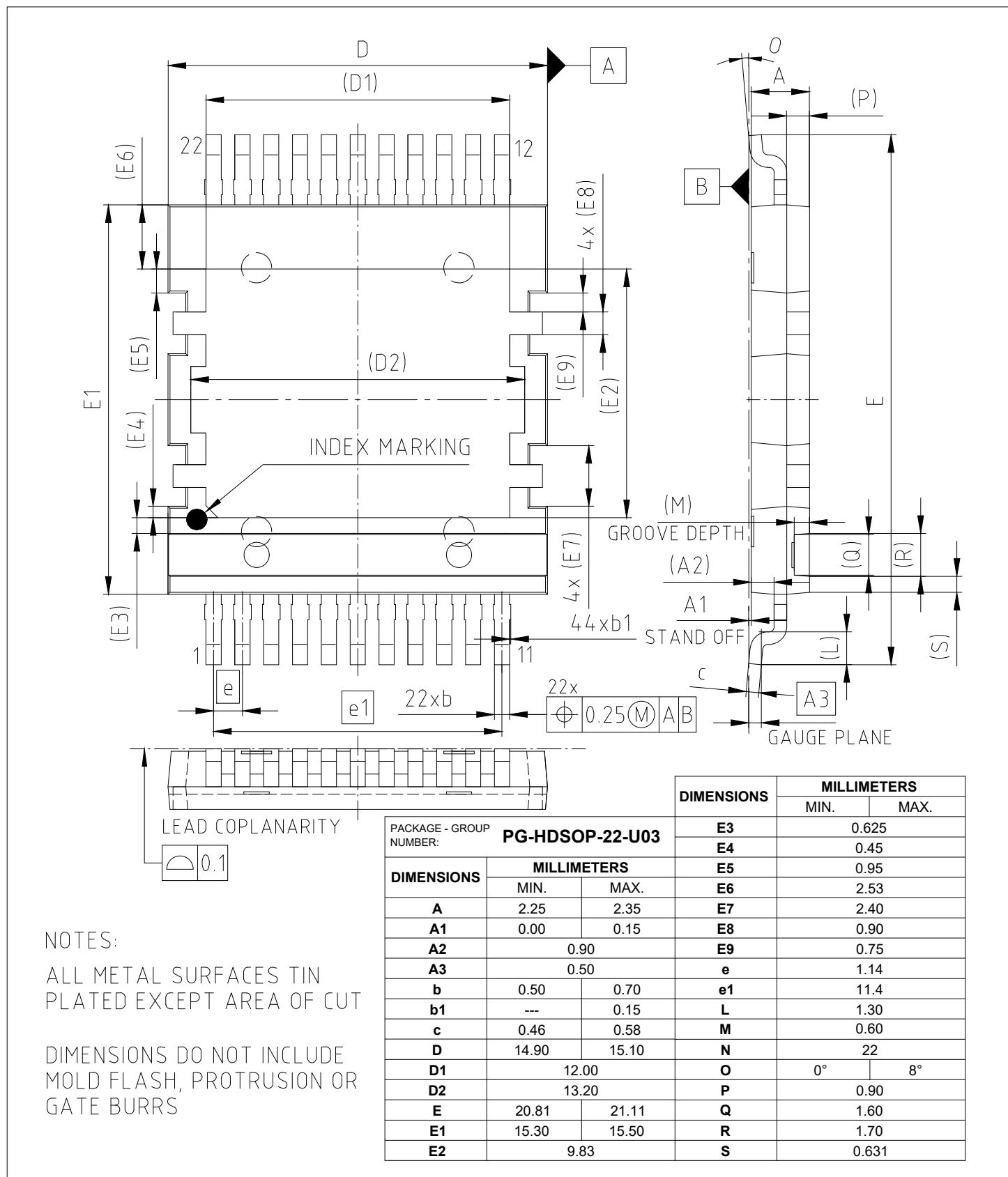
**Max. transient thermal impedance (MOSFET/diode)**

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

$$D = t_p/T$$



## 5 Package outlines



**Figure 1**

**6 Testing conditions**

## 6 Testing conditions

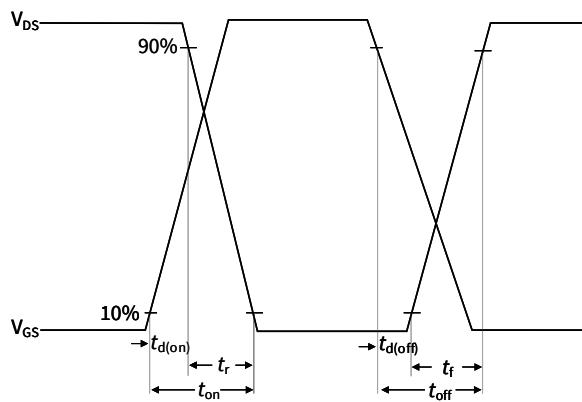


Figure A. **Definition of switching times**

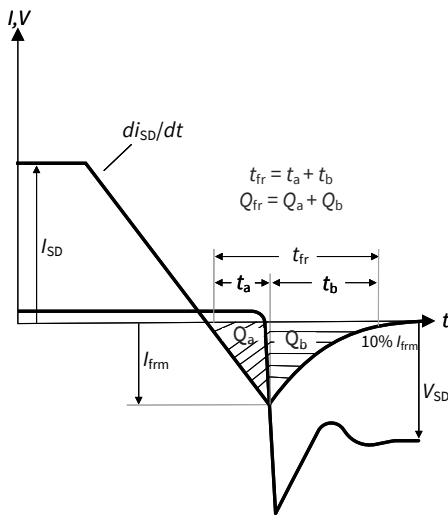


Figure B. **Definition of body diode switching characteristics**

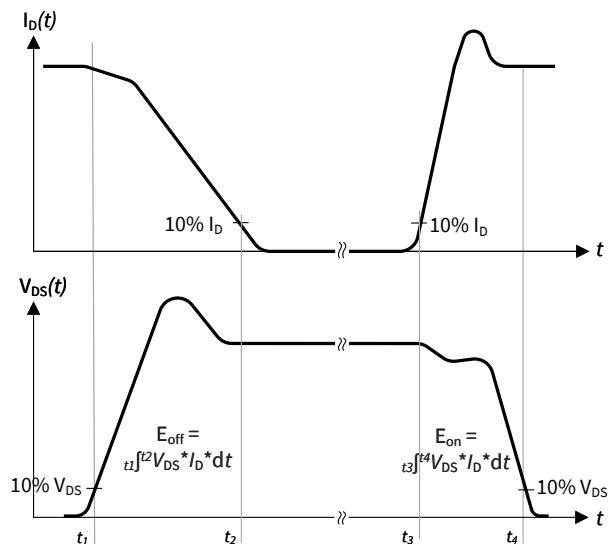


Figure C. **Definition of switching losses**

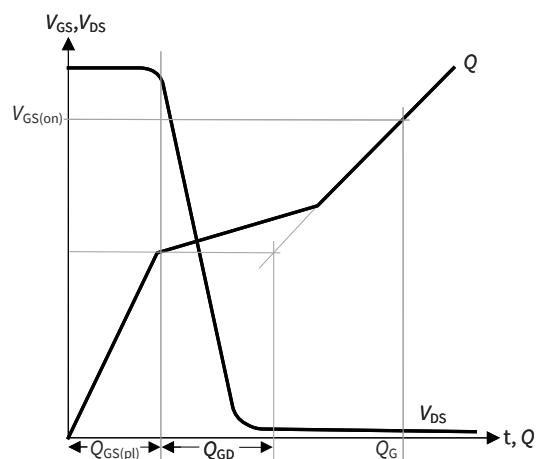


Figure D. **Definition of QGD**

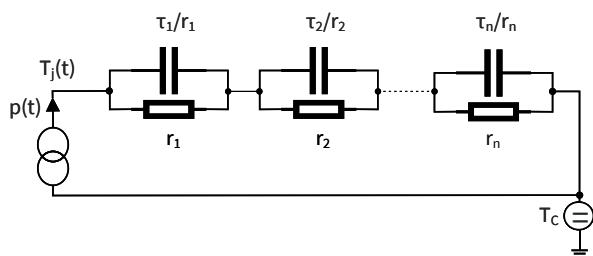


Figure E. **Thermal equivalent circuit**

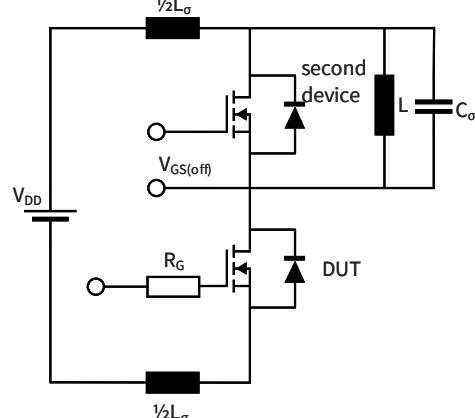


Figure F. **Dynamic test circuit**

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

Figure 2

**Revision history**

**Revision history**

<b>Document revision</b>	<b>Date of release</b>	<b>Description of changes</b>
0.10	2023-01-17	Target datasheet
0.20	2024-07-01	Preliminary datasheet
1.00	2024-07-22	Final datasheet

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