

## Final datasheet

## EasyDUAL module with CoolSiC™ Trench MOSFET and PressFIT / NTC / TIM

### Features

- Electrical features
  - $V_{DS} = 1200\text{ V}$
  - $I_{DN} = 150\text{ A}$  /  $I_{DRM} = 300\text{ A}$
  - Low switching losses
  - Low inductive design
  - High current density
  - Suitable Infineon gate drivers can be found under <https://www.infineon.com/gdfinder>
- Mechanical features
  - Rugged mounting due to integrated mounting clamps
  - PressFIT contact technology
  - Integrated NTC temperature sensor
  - Pre-applied thermal interface material



Typical appearance

### Potential applications

- UPS systems
- High-frequency switching application
- DC/DC converter
- Solar applications

### Product validation

- Qualified for industrial applications according to the relevant tests of IEC 60747, 60749 and 60068

### Description

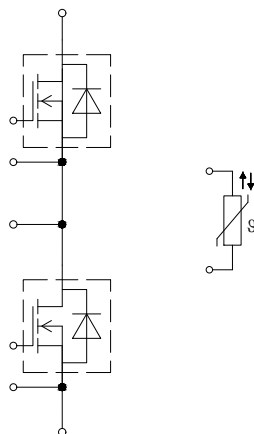


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## 1 Package

**Table 1** Insulation coordination

Parameter	Symbol	Note or test condition	Values	Unit
Isolation test voltage	$V_{ISOL}$	RMS, $f = 50 \text{ Hz}$ , $t = 1 \text{ min}$	3.0	kV
Isolation test voltage NTC	$V_{ISOL(NTC)}$	RMS, $f = 50 \text{ Hz}$ , $t = 1 \text{ min}$	3.0	kV
Internal isolation		basic insulation (class 1, IEC 61140)	$Al_2O_3$	
Comparative tracking index	$CTI$		> 200	
Relative thermal index (electrical)	$RTI$	housing	140	°C

**Table 2** Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Stray inductance module	$L_{SCE}$			8		nH
Module lead resistance, terminals - chip	$R_{CC'+EE'}$	$T_H = 25 \text{ °C}$ , per switch		1.4		mΩ
Storage temperature	$T_{stg}$		-40		125	°C
Maximum baseplate operation temperature	$T_{BPmax}$				125	°C
Mounting force per clamp	$F$		40		80	N
Weight	$G$			39		g

**Note:** The current under continuous operation is limited to 25 A rms per connector pin.  
Storage and shipment of modules with TIM => see AN 2012-07

## 2 MOSFET

**Table 3** Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Drain-source voltage	$V_{DSS}$		$T_{vj} = 25 \text{ °C}$	1200	V
Continuous DC drain current	$I_{DDC}$	$T_{vj} = 175 \text{ °C}$ , $V_{GS} = 18 \text{ V}$	$T_H = 65 \text{ °C}$	150	A
Repetitive peak drain current	$I_{DRM}$	verified by design, $t_p$ limited by $T_{vjmax}$		300	A
Gate-source voltage, max. transient voltage	$V_{GS}$	$D < 0.01$		-10/23	V
Gate-source voltage, max. static voltage	$V_{GS}$			-7/20	V

**Table 4 Recommended values**

Parameter	Symbol	Note or test condition	Values	Unit
On-state gate voltage	$V_{GS(on)}$		15...18	V
Off-state gate voltage	$V_{GS(off)}$		-5...0	V

**Table 5 Characteristic values**

Parameter	Symbol	Note or test condition		Values			Unit
				Min.	Typ.	Max.	
Drain-source on-resistance	$R_{DS(on)}$	$I_D = 150\text{ A}$	$V_{GS} = 18\text{ V}, T_{vj} = 25\text{ °C}$		5.4	8	mΩ
			$V_{GS} = 18\text{ V}, T_{vj} = 125\text{ °C}$		8.7		
			$V_{GS} = 18\text{ V}, T_{vj} = 175\text{ °C}$		11.6		
			$V_{GS} = 15\text{ V}, T_{vj} = 25\text{ °C}$		6.5		
Gate threshold voltage	$V_{GS(th)}$	$I_D = 60\text{ mA}, V_{DS} = V_{GS}, T_{vj} = 25\text{ °C},$ (tested after 1ms pulse at $V_{GS} = +20\text{ V}$ )		3.45	4.3	5.15	V
Total gate charge	$Q_G$	$V_{DD} = 800\text{ V}, V_{GS} = -3/18\text{ V}, T_{vj} = 25\text{ °C}$			0.446		μC
Internal gate resistor	$R_{Gint}$	$T_{vj} = 25\text{ °C}$			1.4		Ω
Input capacitance	$C_{ISS}$	$f = 100\text{ kHz}, V_{DS} = 800\text{ V}, V_{GS} = 0\text{ V}$	$T_{vj} = 25\text{ °C}$		13.2		nF
Output capacitance	$C_{OSS}$	$f = 100\text{ kHz}, V_{DS} = 800\text{ V}, V_{GS} = 0\text{ V}$	$T_{vj} = 25\text{ °C}$		0.63		nF
Reverse transfer capacitance	$C_{rss}$	$f = 100\text{ kHz}, V_{DS} = 800\text{ V}, V_{GS} = 0\text{ V}$	$T_{vj} = 25\text{ °C}$		0.042		nF
$C_{OSS}$ stored energy	$E_{OSS}$	$V_{DS} = 800\text{ V}, V_{GS} = -3/18\text{ V}, T_{vj} = 25\text{ °C}$			258		μJ
Drain-source leakage current	$I_{DSS}$	$V_{DS} = 1200\text{ V}, V_{GS} = -3\text{ V}$	$T_{vj} = 25\text{ °C}$		0.09	530	μA
Gate-source leakage current	$I_{GSS}$	$V_{DS} = 0\text{ V}, T_{vj} = 25\text{ °C}$	$V_{GS} = 20\text{ V}$			400	nA
Turn-on delay time (inductive load)	$t_{d on}$	$I_D = 150\text{ A}, R_{Gon} = 2.7\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, t_{dead} = 1000\text{ ns}, 0.1\text{ V}_{GS}$ to $0.1\text{ I}_D$	$T_{vj} = 25\text{ °C}$		31		ns
			$T_{vj} = 125\text{ °C}$		31		
			$T_{vj} = 175\text{ °C}$		32		
Rise time (inductive load)	$t_r$	$I_D = 150\text{ A}, R_{Gon} = 2.7\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, t_{dead} = 1000\text{ ns}, 0.1\text{ I}_D$ to $0.9\text{ I}_D$	$T_{vj} = 25\text{ °C}$		13		ns
			$T_{vj} = 125\text{ °C}$		13		
			$T_{vj} = 175\text{ °C}$		14		

(table continues...)

**Table 5** (continued) Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Turn-off delay time (inductive load)	$t_{d\ off}$	$I_D = 150\ A, R_{Goff} = 0.51\ \Omega, V_{DD} = 600\ V, V_{GS} = -3/18\ V, 0.9\ V_{GS}\ \text{to}\ 0.9\ I_D$	$T_{vj} = 25\ ^\circ C$	35		ns
			$T_{vj} = 125\ ^\circ C$	38		
			$T_{vj} = 175\ ^\circ C$	41		
Fall time (inductive load)	$t_f$	$I_D = 150\ A, R_{Goff} = 0.51\ \Omega, V_{DD} = 600\ V, V_{GS} = -3/18\ V, 0.9\ I_D\ \text{to}\ 0.1\ I_D$	$T_{vj} = 25\ ^\circ C$	11		ns
			$T_{vj} = 125\ ^\circ C$	12		
			$T_{vj} = 175\ ^\circ C$	16		
Turn-on energy loss per pulse	$E_{on}$	$I_D = 150\ A, V_{DD} = 600\ V, L_\sigma = 8\ nH, V_{GS} = -3/18\ V, R_{Gon} = 2.7\ \Omega, di/dt = 13.5\ kA/\mu s\ (T_{vj} = 175\ ^\circ C), t_{dead} = 1000\ ns$	$T_{vj} = 25\ ^\circ C$	2.12		mJ
			$T_{vj} = 125\ ^\circ C$	2.35		
			$T_{vj} = 175\ ^\circ C$	2.67		
Turn-on energy loss per pulse, optimized	$E_{on,o}$	$I_D = 150\ A, V_{DD} = 600\ V, L_\sigma = 8\ nH, V_{GS} = -3/18\ V, R_{Gon,o} = 1.5\ \Omega, di/dt = 18.1\ kA/\mu s\ (T_{vj} = 175\ ^\circ C), t_{dead} = 100\ ns$	$T_{vj} = 25\ ^\circ C$	1.28		mJ
			$T_{vj} = 125\ ^\circ C$	1.3		
			$T_{vj} = 175\ ^\circ C$	1.35		
Turn-off energy loss per pulse	$E_{off}$	$I_D = 150\ A, V_{DD} = 600\ V, L_\sigma = 8\ nH, V_{GS} = -3/18\ V, R_{Goff} = 0.51\ \Omega, dv/dt = 42.5\ kV/\mu s\ (T_{vj} = 175\ ^\circ C)$	$T_{vj} = 25\ ^\circ C$	0.41		mJ
			$T_{vj} = 125\ ^\circ C$	0.434		
			$T_{vj} = 175\ ^\circ C$	0.445		
SC data	$I_{SC}$	$V_{GS} = -5/15\ V, V_{DD} = 800\ V, V_{DSmax} = V_{DSS} - L_{sDS} * di/dt, R_G = 10\ \Omega$	$t_P = 2\ \mu s, T_{vj} = 25\ ^\circ C$	1260		A
			$t_P = 2\ \mu s, T_{vj} = 150\ ^\circ C$	1230		
Thermal resistance, junction to heat sink	$R_{thJH}$	per MOSFET, Valid with IFX pre-applied Thermal Interface Material			0.314	K/W
Temperature under switching conditions	$T_{vj\ op}$		-40		175	$^\circ C$

**Note:** The selection of positive and negative gate-source voltages impacts losses and the long-term behavior of the MOSFET and body diode. The design guidelines described in Application Notes AN 2018-09 and AN 2021-13 must be considered to ensure sound operation of the device over the planned lifetime.

$T_{vj,op} > 150\ ^\circ C$  is allowed for operation at overload conditions for MOSFET and body diode. For detailed specifications, please refer to AN 2021-13.

### 3 Body diode (MOSFET)

**Table 6** Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
DC body diode forward current	$I_{SD}$	$T_{vj} = 175\text{ °C}$ , $V_{GS} = -3\text{ V}$	$T_H = 65\text{ °C}$	85	A

**Table 7** Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	$V_{SD}$	$I_{SD} = 150\text{ A}$ , $V_{GS} = -3\text{ V}$	$T_{vj} = 25\text{ °C}$	4.2	5.35	V
			$T_{vj} = 125\text{ °C}$	3.9		
			$T_{vj} = 175\text{ °C}$	3.8		
Peak reverse recovery current	$I_{rrm}$	$I_{SD} = 150\text{ A}$ , $di_s/dt = 13.5\text{ kA}/\mu\text{s}$ , $V_{DD} = 600\text{ V}$ , $V_{GS} = -3\text{ V}$ , $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25\text{ °C}$	106		A
			$T_{vj} = 125\text{ °C}$	155		
			$T_{vj} = 175\text{ °C}$	175		
Recovered charge	$Q_{rr}$	$I_{SD} = 150\text{ A}$ , $di_s/dt = 13.5\text{ kA}/\mu\text{s}$ , $V_{DD} = 600\text{ V}$ , $V_{GS} = -3\text{ V}$ , $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25\text{ °C}$	1.36		$\mu\text{C}$
			$T_{vj} = 125\text{ °C}$	2.47		
			$T_{vj} = 175\text{ °C}$	3.2		
Reverse recovery energy	$E_{rec}$	$I_{SD} = 150\text{ A}$ , $di_s/dt = 13.5\text{ kA}/\mu\text{s}$ ( $T_{vj} = 175\text{ °C}$ ), $V_{DD} = 600\text{ V}$ , $V_{GS} = -3\text{ V}$ , $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25\text{ °C}$	0.521		mJ
			$T_{vj} = 125\text{ °C}$	0.863		
			$T_{vj} = 175\text{ °C}$	1.16		
Reverse recovery energy, optimized	$E_{rec,o}$	$I_{SD} = 150\text{ A}$ , $di_s/dt = 18.1\text{ kA}/\mu\text{s}$ ( $T_{vj} = 175\text{ °C}$ ), $V_{DD} = 600\text{ V}$ , $V_{GS} = -3\text{ V}$ , $t_{dead} = 100\text{ ns}$	$T_{vj} = 25\text{ °C}$	0.764		mJ
			$T_{vj} = 125\text{ °C}$	0.816		
			$T_{vj} = 175\text{ °C}$	0.963		

### 4 NTC-Thermistor

**Table 8** Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Rated resistance	$R_{25}$	$T_{NTC} = 25\text{ °C}$		5		k $\Omega$
Deviation of $R_{100}$	$\Delta R/R$	$T_{NTC} = 100\text{ °C}$ , $R_{100} = 493\text{ }\Omega$	-5		5	%
Power dissipation	$P_{25}$	$T_{NTC} = 25\text{ °C}$			20	mW
B-value	$B_{25/50}$	$R_2 = R_{25} \exp[B_{25/50}(1/T_2 - 1/(298,15\text{ K}))]$		3375		K
B-value	$B_{25/80}$	$R_2 = R_{25} \exp[B_{25/80}(1/T_2 - 1/(298,15\text{ K}))]$		3411		K
B-value	$B_{25/100}$	$R_2 = R_{25} \exp[B_{25/100}(1/T_2 - 1/(298,15\text{ K}))]$		3433		K

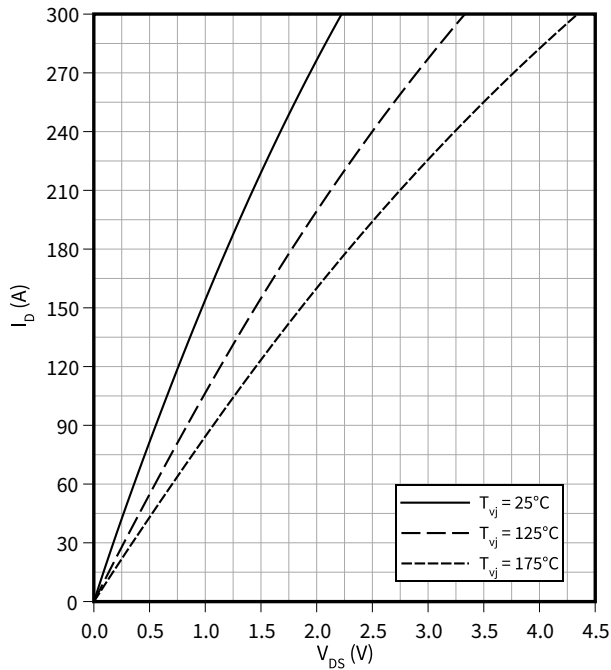
**Note:** For an analytical description of the NTC characteristics please refer to AN2009-10, chapter 4.

5 Characteristics diagrams

Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

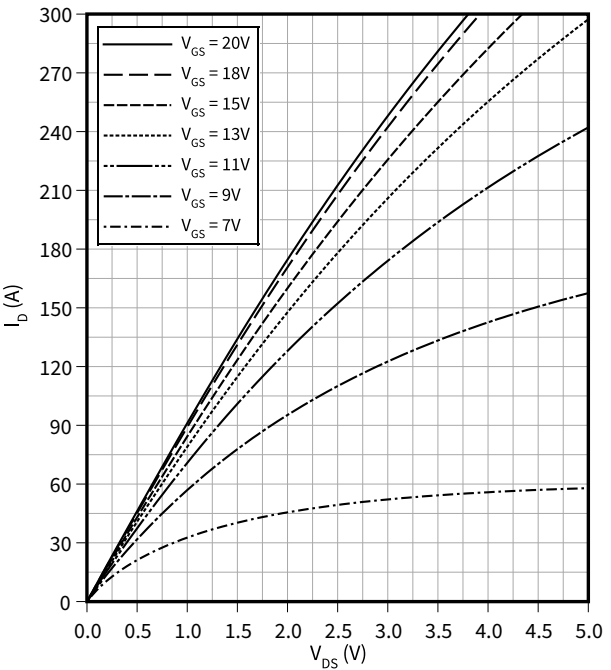
$V_{GS} = 15\text{ V}$



Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

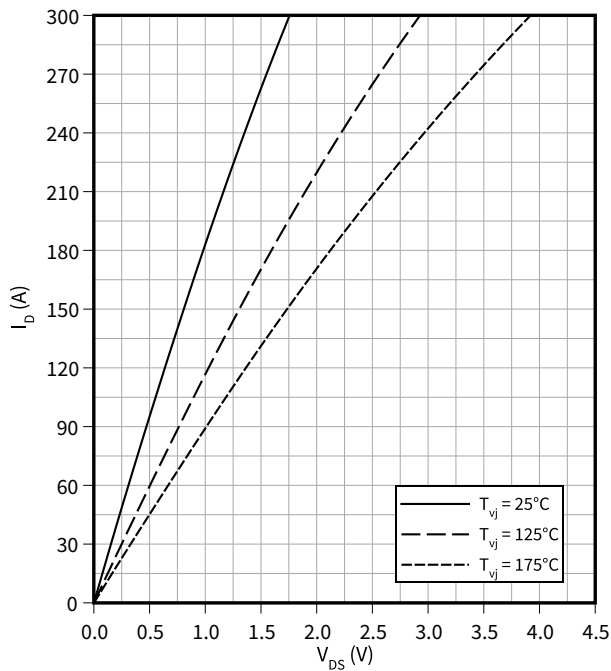
$T_{vj} = 175\text{ °C}$



Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

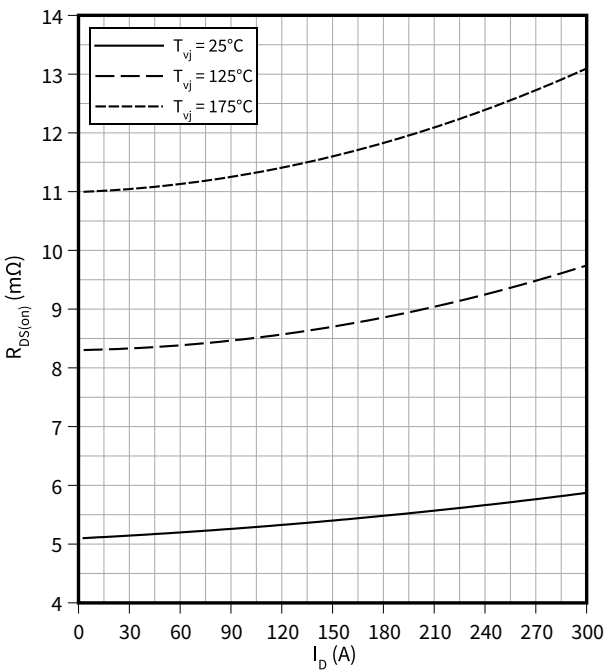
$V_{GS} = 18\text{ V}$



Drain source on-resistance (typical), MOSFET

$R_{DS(on)} = f(I_D)$

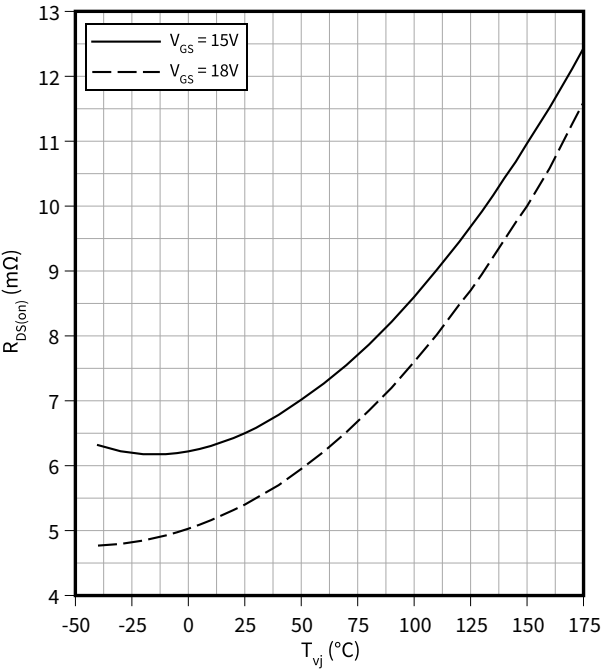
$V_{GS} = 18\text{ V}$



5 Characteristics diagrams

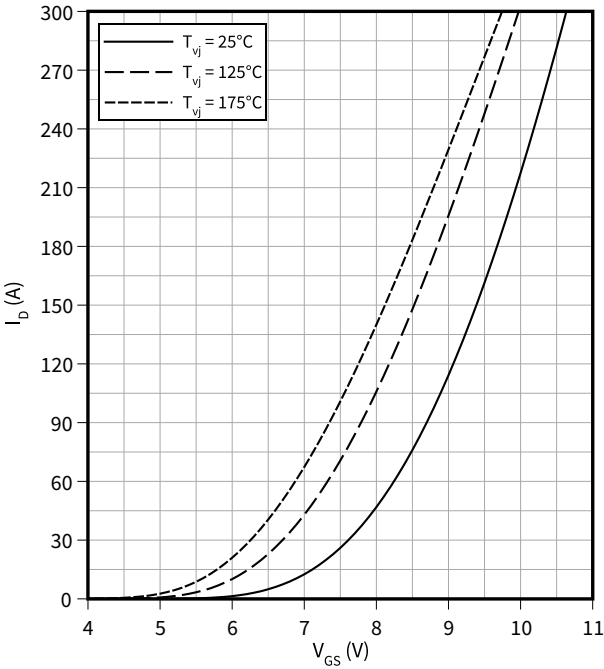
Drain source on-resistance (typical), MOSFET

$R_{DS(on)} = f(T_{vj})$   
 $I_D = 150\text{ A}$



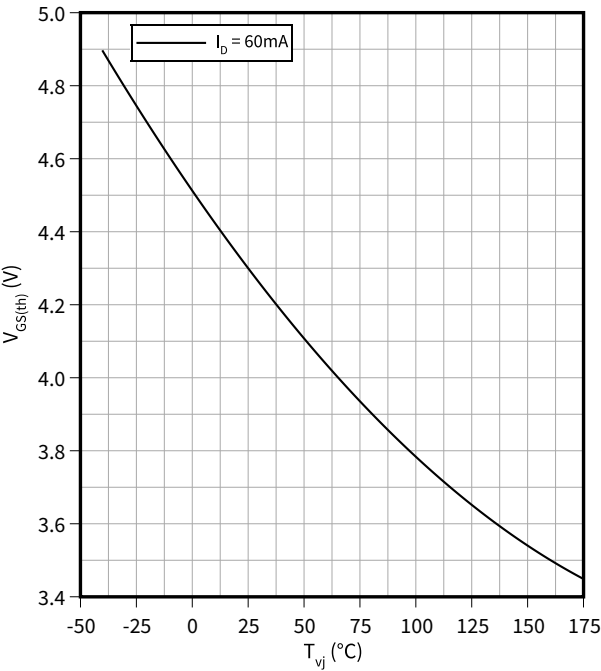
Transfer characteristic (typical), MOSFET

$I_D = f(V_{GS})$   
 $V_{DS} = 20\text{ V}$



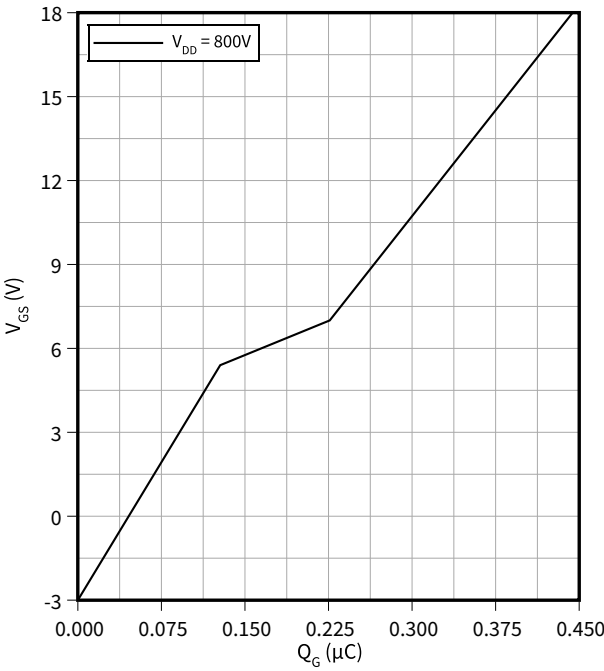
Gate-source threshold voltage (typical), MOSFET

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



Gate charge characteristic (typical), MOSFET

$V_{GS} = f(Q_G)$   
 $I_D = 150\text{ A}, T_{vj} = 25\text{ }^\circ C$

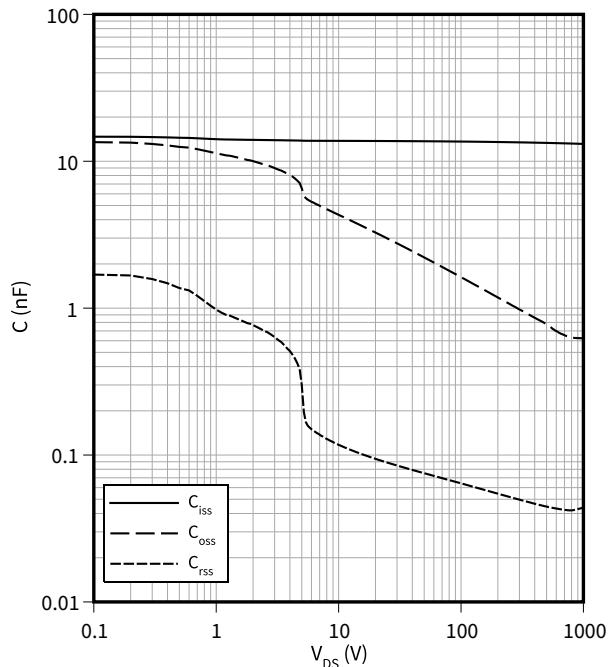




5 Characteristics diagrams

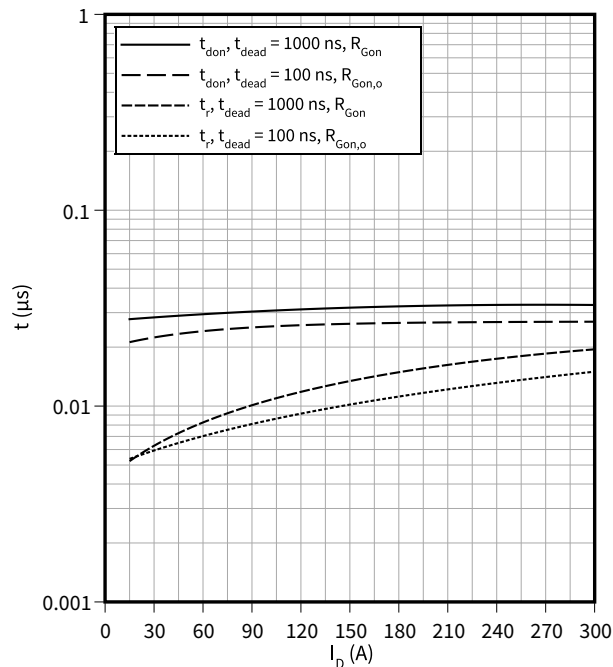
Capacity characteristic (typical), MOSFET

$C = f(V_{DS})$   
 $f = 100 \text{ kHz}$ ,  $T_{vj} = 25 \text{ }^{\circ}\text{C}$ ,  $V_{GS} = 0 \text{ V}$



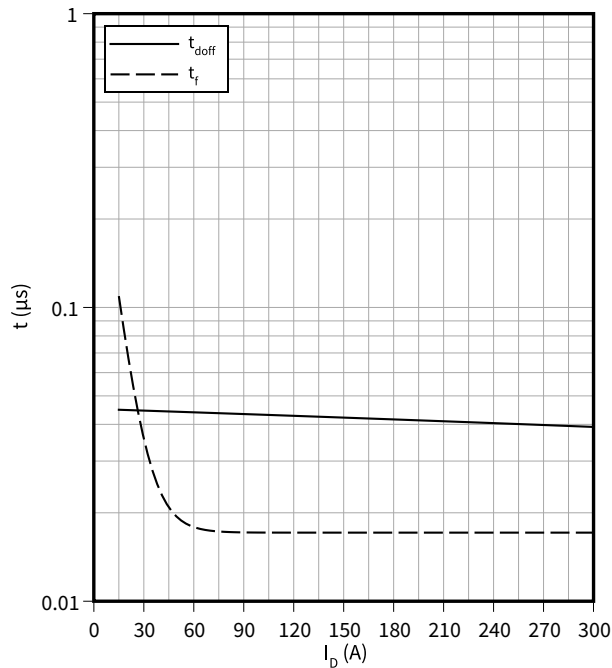
Switching times (typical), MOSFET

$t = f(I_D)$   
 $V_{DD} = 600 \text{ V}$ ,  $R_{Gon} = 2.7 \text{ } \Omega$ ,  $R_{Gon,o} = 1.5 \text{ } \Omega$ ,  $T_{vj} = 175 \text{ }^{\circ}\text{C}$ ,  $V_{GS} = -3/18 \text{ V}$



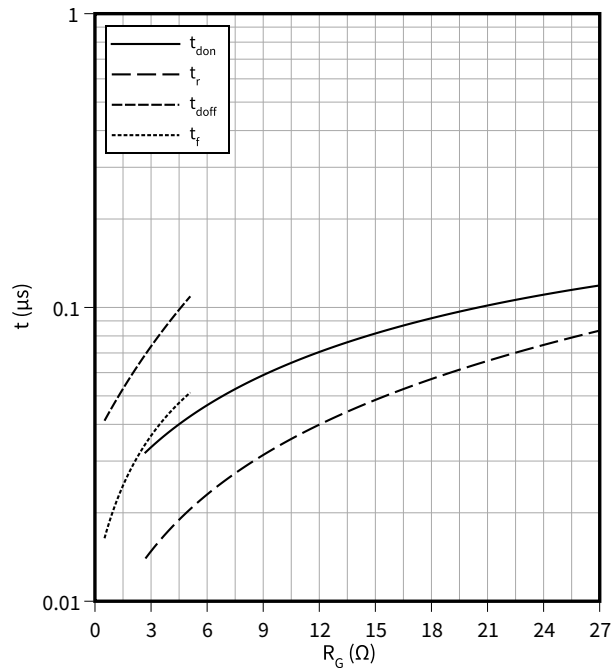
Switching times (typical), MOSFET

$t = f(I_D)$   
 $R_{Goff} = 0.51 \text{ } \Omega$ ,  $V_{DD} = 600 \text{ V}$ ,  $T_{vj} = 175 \text{ }^{\circ}\text{C}$ ,  $V_{GS} = -3/18 \text{ V}$



Switching times (typical), MOSFET

$t = f(R_G)$   
 $V_{DD} = 600 \text{ V}$ ,  $t_{dead} = 1000 \text{ ns}$ ,  $I_D = 150 \text{ A}$ ,  $T_{vj} = 175 \text{ }^{\circ}\text{C}$ ,  $V_{GS} = -3/18 \text{ V}$

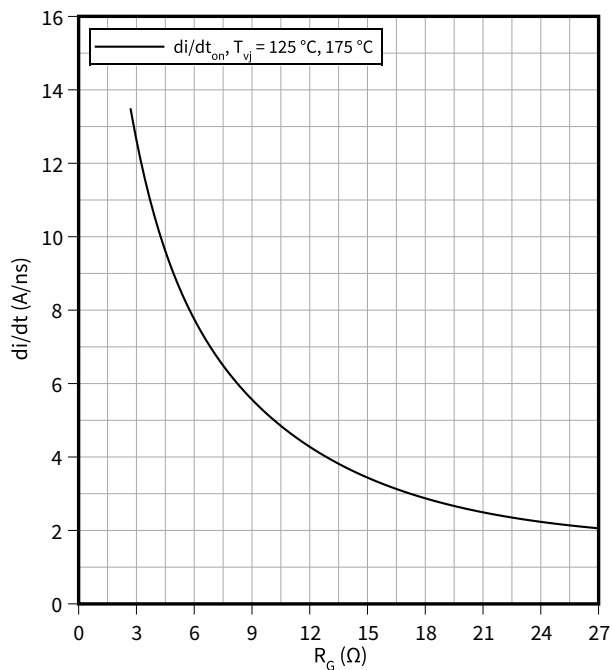


5 Characteristics diagrams

**Current slope (typical), MOSFET**

$$di/dt = f(R_G)$$

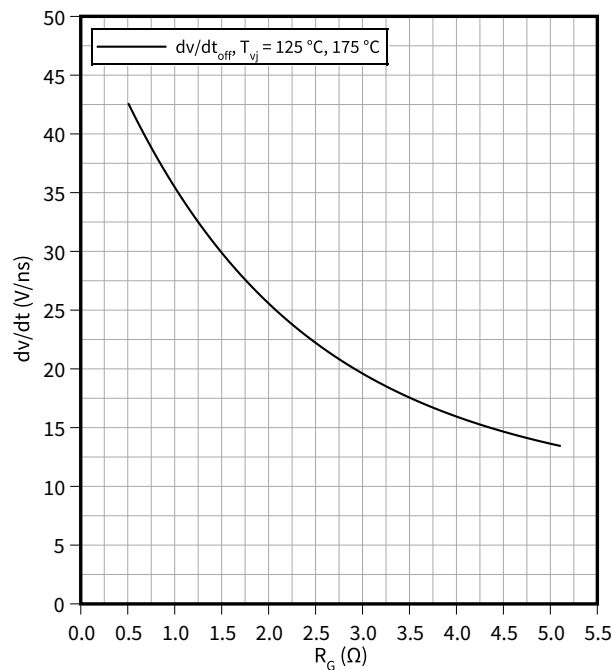
$V_{DD} = 600 \text{ V}$ ,  $t_{dead} = 1000 \text{ ns}$ ,  $I_D = 150 \text{ A}$ ,  $V_{GS} = -3/18 \text{ V}$



**Voltage slope (typical), MOSFET**

$$dv/dt = f(R_G)$$

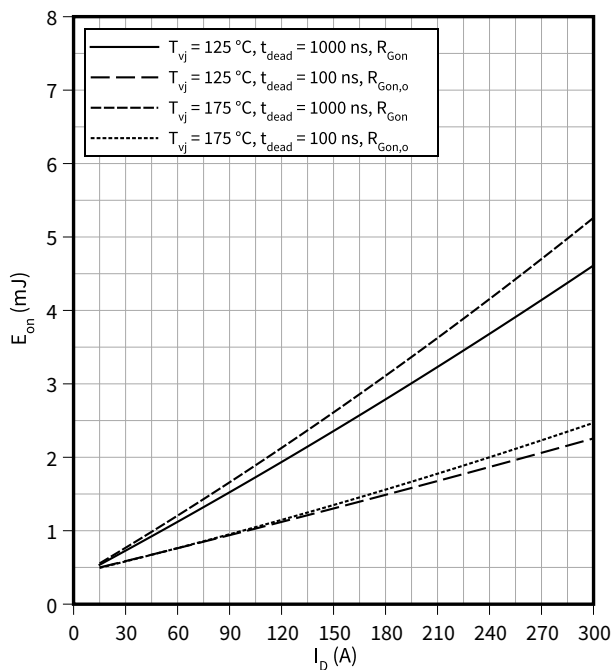
$V_{DD} = 600 \text{ V}$ ,  $I_D = 150 \text{ A}$ ,  $V_{GS} = -3/18 \text{ V}$



**Switching losses (typical), MOSFET**

$$E_{on} = f(I_D)$$

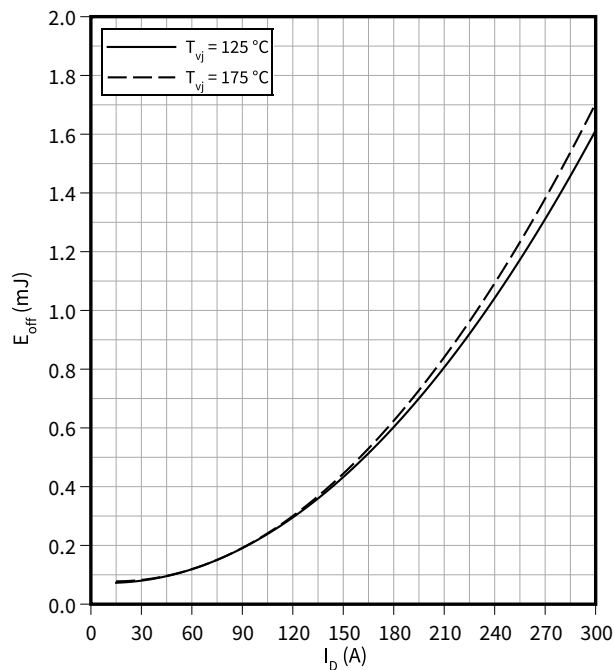
$R_{Gon} = 2.7 \Omega$ ,  $V_{DD} = 600 \text{ V}$ ,  $R_{Gon,o} = 1.5 \Omega$ ,  $V_{GS} = -3/18 \text{ V}$



**Switching losses (typical), MOSFET**

$$E_{off} = f(I_D)$$

$R_{Goff} = 0.51 \Omega$ ,  $V_{DD} = 600 \text{ V}$ ,  $V_{GS} = -3/18 \text{ V}$

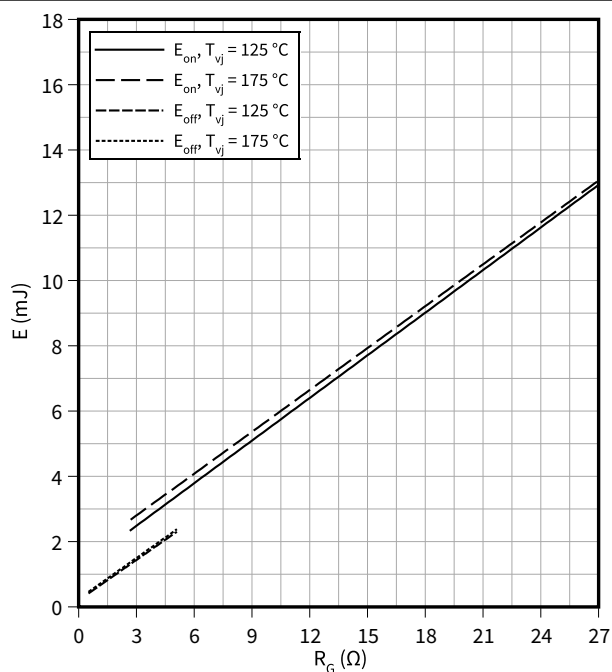


5 Characteristics diagrams

**Switching losses (typical), MOSFET**

$$E = f(R_G)$$

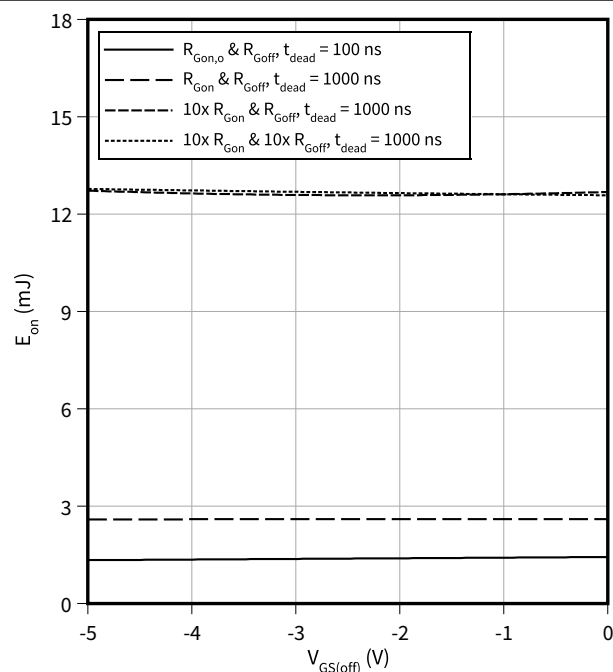
$V_{DD} = 600 \text{ V}$ ,  $t_{\text{dead}} = 1000 \text{ ns}$ ,  $I_D = 150 \text{ A}$ ,  $V_{GS} = -3/18 \text{ V}$



**Switching losses (typical), MOSFET**

$$E_{\text{on}} = f(V_{GS(\text{off})})$$

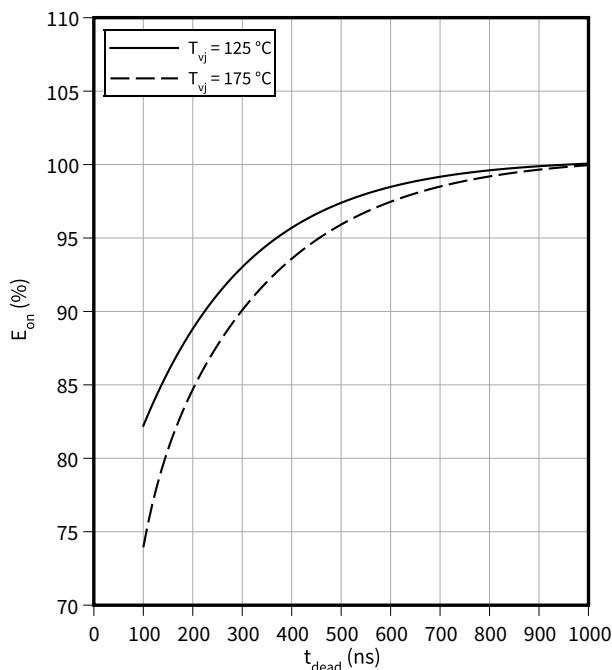
$R_{\text{Goff}} = 0.51 \Omega$ ,  $V_{DD} = 600 \text{ V}$ ,  $R_{\text{Gon}} = 2.7 \Omega$ ,  $V_{GS(\text{on})} = 18 \text{ V}$ ,  $I_D = 150 \text{ A}$ ,  $R_{\text{Gon},0} = 1.5 \Omega$ ,  $T_{vj} = 175 \text{ °C}$



**Switching losses (typical), MOSFET**

$$E_{\text{on}} = f(t_{\text{dead}})$$

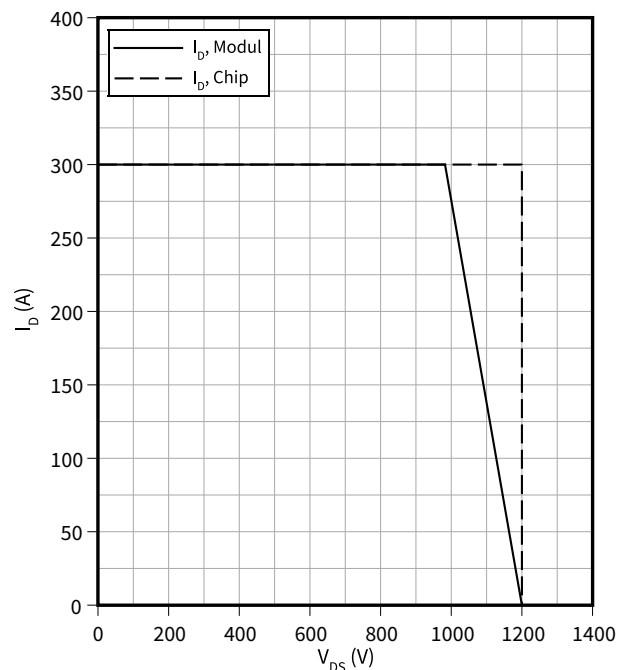
$R_{\text{Gon}} = 2.7 \Omega$ ,  $I_D = 150 \text{ A}$ ,  $V_{DD} = 600 \text{ V}$ ,  $V_{GS} = -3/18 \text{ V}$



**Reverse bias safe operating area (RBSOA), MOSFET**

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

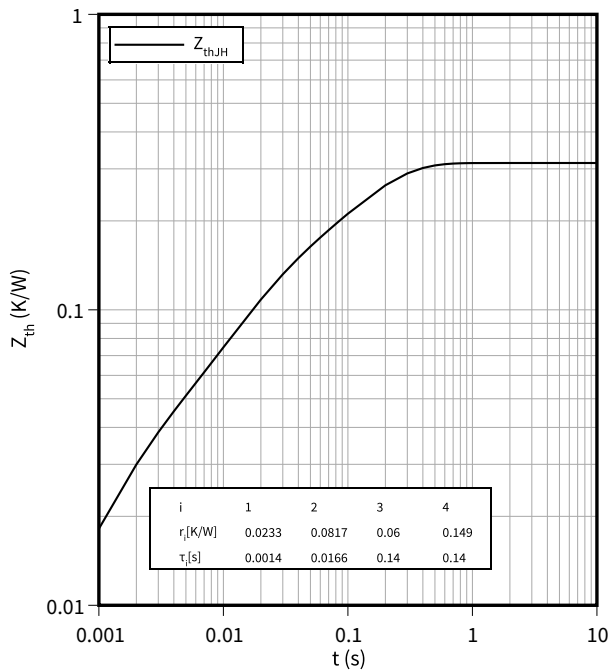
$R_{\text{Goff}} = 0.51 \Omega$ ,  $T_{vj} = 175 \text{ °C}$ ,  $V_{GS} = -3/18 \text{ V}$



5 Characteristics diagrams

Transient thermal impedance, MOSFET

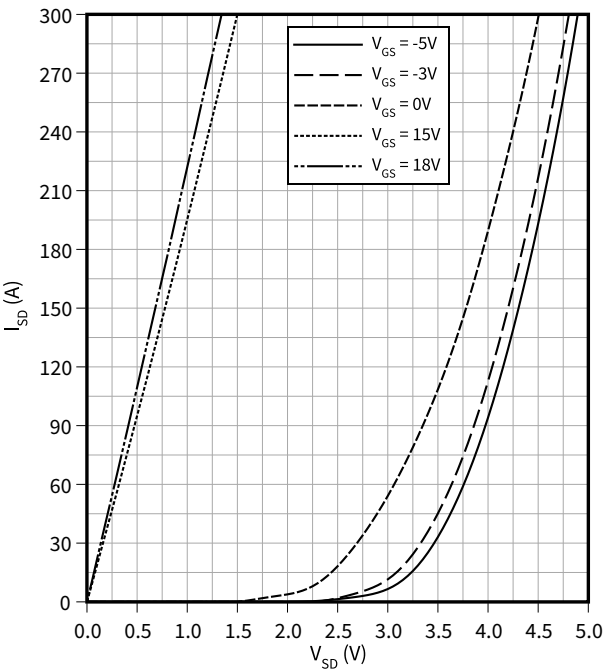
$Z_{th} = f(t)$



Forward characteristic body diode (typical), MOSFET

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

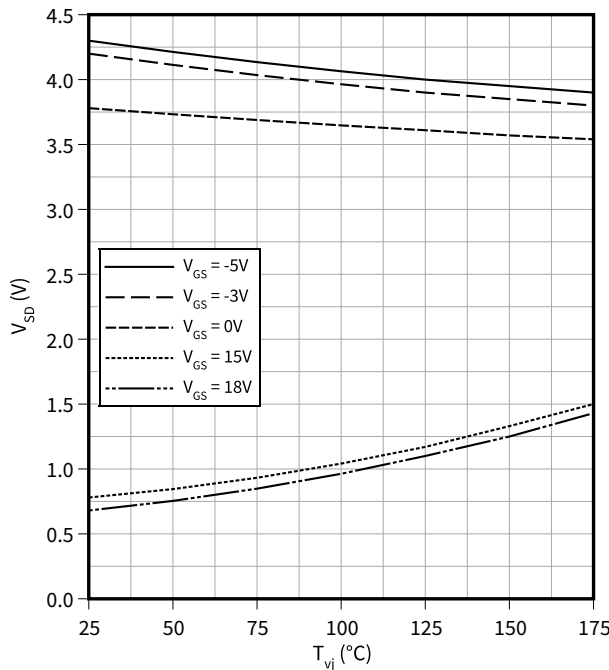
$T_{vj} = 25\text{ }^{\circ}\text{C}$



Forward voltage of body diode (typical), MOSFET

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

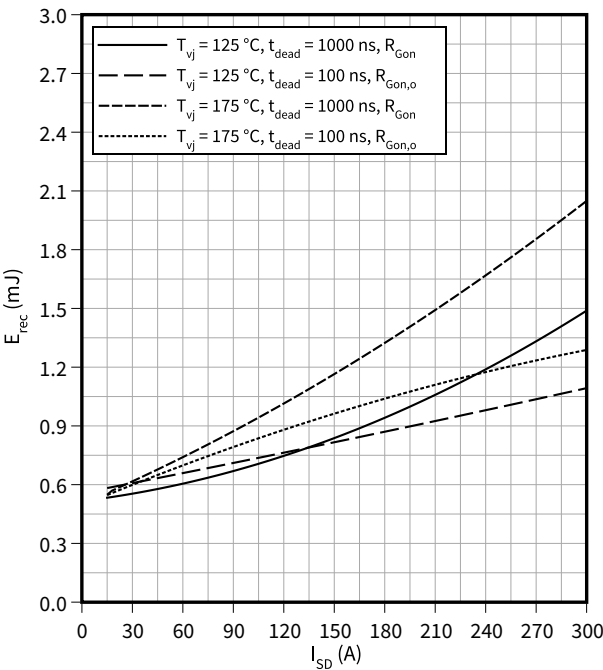
$I_{SD} = 150\text{ A}$



Switching losses body diode (typical), MOSFET

$E_{rec} = f(I_{SD})$

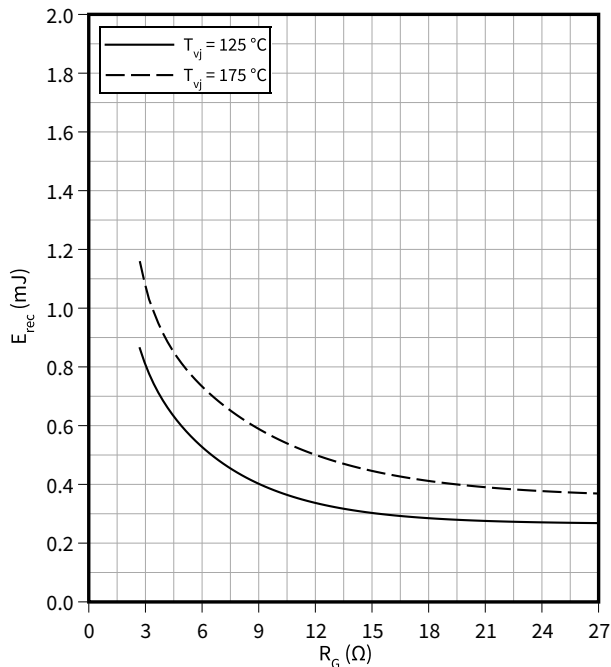
$R_{Gon} = 2.7\text{ }\Omega$ ,  $R_{Gon,o} = 1.5\text{ }\Omega$ ,  $V_{DD} = 600\text{ V}$



5 Characteristics diagrams

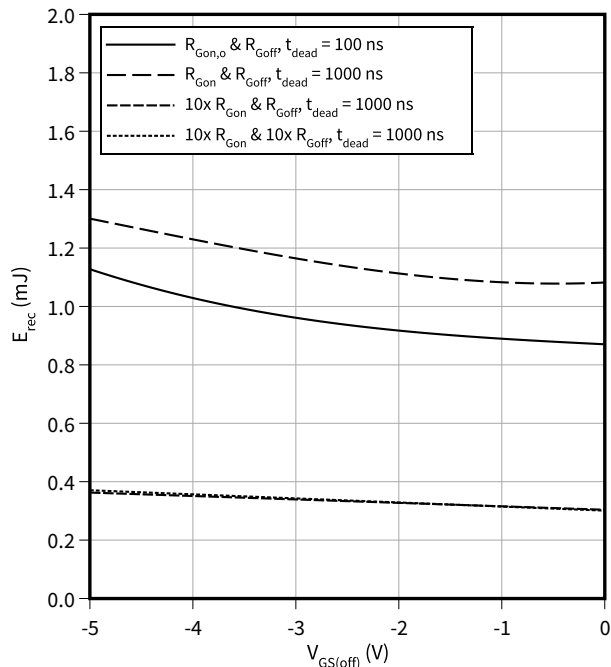
Switching losses body diode (typical), MOSFET

$E_{rec} = f(R_G)$   
 $t_{dead} = 1000\text{ ns}$ ,  $I_{SD} = 150\text{ A}$ ,  $V_{DD} = 600\text{ V}$



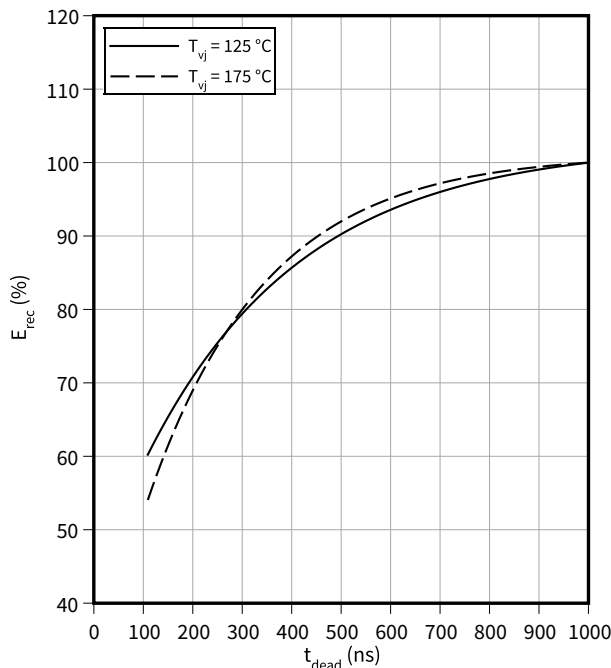
Switching losses body diode (typical), MOSFET

$E_{rec} = f(V_{GS(off)})$   
 $R_{Goff} = 0.51\text{ }\Omega$ ,  $R_{Gon} = 2.7\text{ }\Omega$ ,  $V_{GS(on)} = 18\text{ V}$ ,  $I_{SD} = 150\text{ A}$ ,  
 $R_{Gon,o} = 1.5\text{ }\Omega$ ,  $V_{DD} = 600\text{ V}$ ,  $T_{vj} = 175\text{ }^\circ\text{C}$



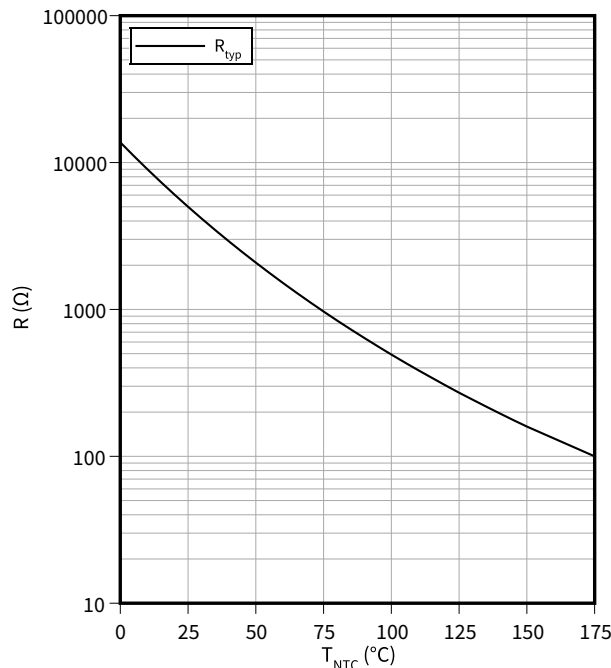
Switching losses body diode (typical), MOSFET

$E_{rec} = f(t_{dead})$   
 $R_{Gon} = 2.7\text{ }\Omega$ ,  $I_D = 150\text{ A}$ ,  $V_{DD} = 600\text{ V}$ ,  $V_{GS} = -3/18\text{ V}$



Temperature characteristic (typical), NTC-Thermistor

$R = f(T_{NTC})$



6 Circuit diagram

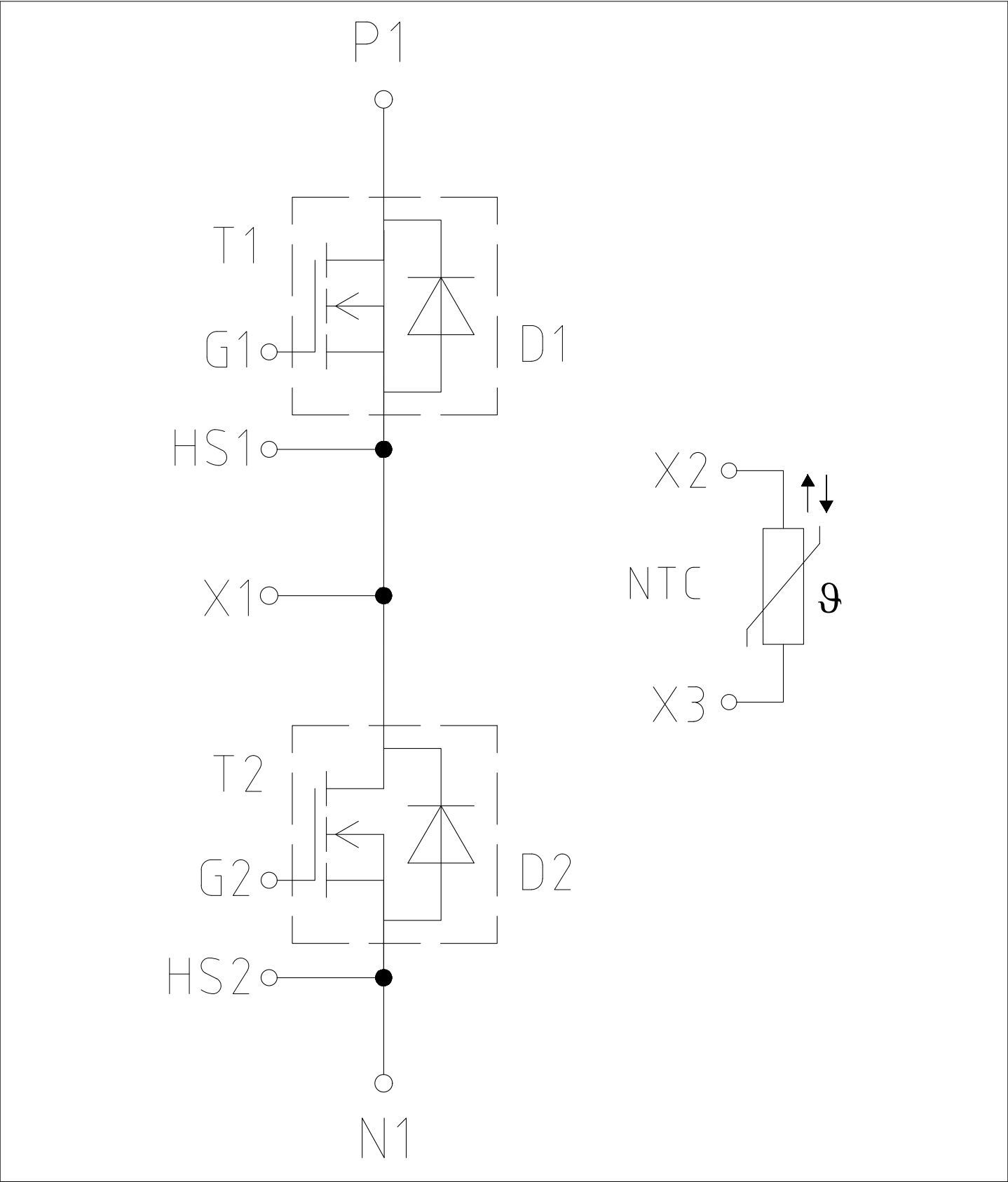


Figure 1

## 7 Package outlines

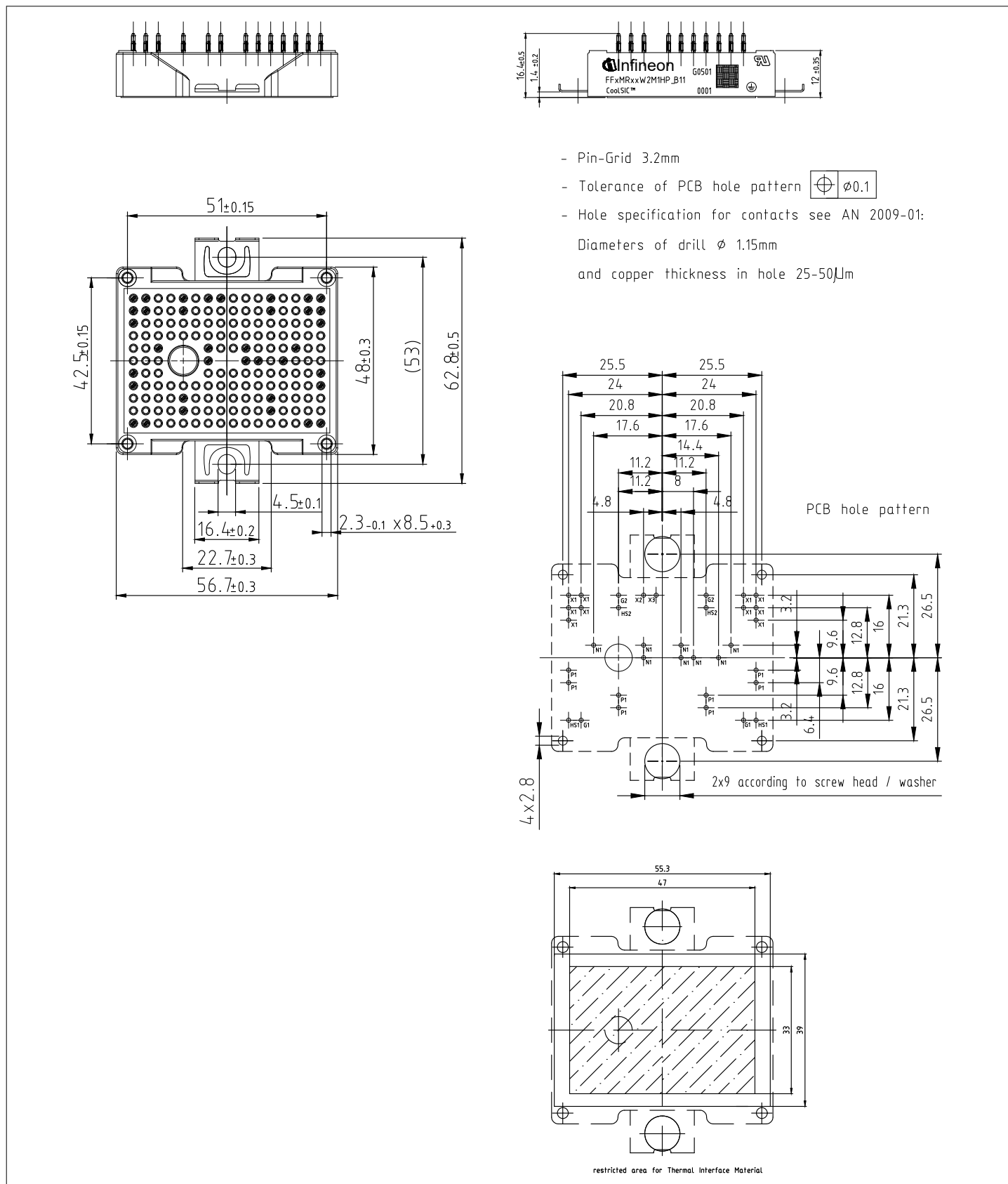


Figure 2

8 Module label code



Module label code			
Code format	Data Matrix		Barcode Code128
Encoding	ASCII text		Code Set A
Symbol size	16x16		23 digits
Standard	IEC24720 and IEC16022		IEC8859-1
Code content	<i>Content</i>	<i>Digit</i>	<i>Example</i>
	Module serial number	1 – 5	71549
	Module material number	6 - 11	142846
	Production order number	12 - 19	55054991
	Date code (production year)	20 – 21	15
	Date code (production week)	22 – 23	30
Example			
			
71549142846550549911530		71549142846550549911530	

Figure 3





Revision history

Revision history

Document revision	Date of release	Description of changes
0.10	2023-08-07	Initial version
1.00	2025-03-14	Final datasheet

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