

## Final datasheet

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

#### Features

- Electrical features
  - $V_{DS} = 1200\text{ V}$
  - $I_{DN} = 200\text{ A}$  /  $I_{DRM} = 400\text{ A}$
  - Low inductive design
  - Low switching losses
  - High current density
  - Suitable Infineon gate drivers can be found under <https://www.infineon.com/gdfinder>
- Mechanical features
  - Improved ceramic substrate
  - Integrated NTC temperature sensor
  - PressFIT contact technology
  - Rugged mounting due to integrated mounting clamps



#### Potential applications

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

#### Product validation

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

#### Description

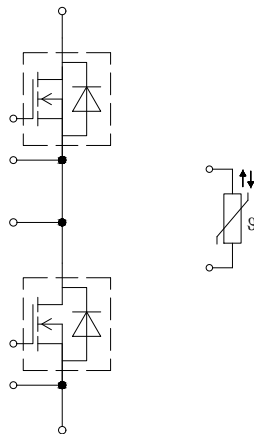


Table of contents

	Description .....	1
	Features .....	1
	Potential applications .....	1
	Product validation .....	1
	Table of contents .....	2
1	Package .....	3
2	MOSFET .....	3
3	Body diode (MOSFET) .....	5
4	NTC-Thermistor .....	6
5	Characteristics diagrams .....	7
6	Circuit diagram .....	14
7	Package outlines .....	15
8	Module label code .....	16
	Revision history .....	17
	Disclaimer .....	18

## 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)	AIN	
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
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.

## 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	$I_{DDC}$	$T_{vj} = 175 \text{ °C}$ , $V_{GS} = 18 \text{ V}$ $T_H = 85 \text{ °C}$	200	A
Repetitive peak drain current	$I_{DRM}$	verified by design, $t_p$ limited by $T_{vjmax}$	400	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

(table continues...)

**Table 4 (continued) Recommended values**

Parameter	Symbol	Note or test condition	Values	Unit
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	$R_{DS(on)}$	$I_D = 200\text{ A}$	$V_{GS} = 18\text{ V}, T_{vj} = 25\text{ °C}$		4	6	mΩ
			$V_{GS} = 18\text{ V}, T_{vj} = 125\text{ °C}$		6.5		
			$V_{GS} = 18\text{ V}, T_{vj} = 175\text{ °C}$		8.7		
			$V_{GS} = 15\text{ V}, T_{vj} = 25\text{ °C}$		4.9		
Gate threshold voltage	$V_{GS(th)}$	$I_D = 80\text{ mA}, V_{DS} = V_{GS}, T_{vj} = 25\text{ °C},$ (tested after 1ms pulse at $V_{GS} = +20\text{ V}$ )		3.45	4.3	5.15	V
Total gate charge	$Q_G$	$V_{DD} = 800\text{ V}, V_{GS} = -3/18\text{ V}, T_{vj} = 25\text{ °C}$			0.594		μC
Internal gate resistor	$R_{Gint}$	$T_{vj} = 25\text{ °C}$			1		Ω
Input capacitance	$C_{ISS}$	$f = 100\text{ kHz}, V_{DS} = 800\text{ V}, V_{GS} = 0\text{ V}$	$T_{vj} = 25\text{ °C}$		17.6		nF
Output capacitance	$C_{OSS}$	$f = 100\text{ kHz}, V_{DS} = 800\text{ V}, V_{GS} = 0\text{ V}$	$T_{vj} = 25\text{ °C}$		0.84		nF
Reverse transfer capacitance	$C_{rss}$	$f = 100\text{ kHz}, V_{DS} = 800\text{ V}, V_{GS} = 0\text{ V}$	$T_{vj} = 25\text{ °C}$		0.056		nF
$C_{OSS}$ stored energy	$E_{OSS}$	$V_{DS} = 800\text{ V}, V_{GS} = -3/18\text{ V}, T_{vj} = 25\text{ °C}$			344		μJ
Drain-source leakage current	$I_{DSS}$	$V_{DS} = 1200\text{ V}, V_{GS} = -3\text{ V}$	$T_{vj} = 25\text{ °C}$		0.12	660	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)	$t_{d\ on}$	$I_D = 200\text{ A}, R_{Gon} = 2.4\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, t_{dead} = 1000\text{ ns}, 0.1\text{ }V_{GS}\text{ to }0.1\text{ }I_D$	$T_{vj} = 25\text{ °C}$		33		ns
			$T_{vj} = 125\text{ °C}$		33		
			$T_{vj} = 175\text{ °C}$		33		
Rise time (inductive load)	$t_r$	$I_D = 200\text{ A}, R_{Gon} = 2.4\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, t_{dead} = 1000\text{ ns}, 0.1\text{ }I_D\text{ to }0.9\text{ }I_D$	$T_{vj} = 25\text{ °C}$		47		ns
			$T_{vj} = 125\text{ °C}$		46		
			$T_{vj} = 175\text{ °C}$		46		
Turn-off delay time (inductive load)	$t_{d\ off}$	$I_D = 200\text{ A}, R_{Goff} = 0.22\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, 0.9\text{ }V_{GS}\text{ to }0.9\text{ }I_D$	$T_{vj} = 25\text{ °C}$		47		ns
			$T_{vj} = 125\text{ °C}$		51		
			$T_{vj} = 175\text{ °C}$		52		

(table continues...)

Table 5 (continued) Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Fall time (inductive load)	$t_f$	$I_D = 200\text{ A}$ , $R_{Goff} = 0.22\ \Omega$ , $V_{DD} = 600\text{ V}$ , $V_{GS} = -3/18\text{ V}$ , $0.9\ I_D$ to $0.1\ I_D$	$T_{vj} = 25\text{ °C}$	11		ns
			$T_{vj} = 125\text{ °C}$	11		
			$T_{vj} = 175\text{ °C}$	11		
Turn-on energy loss per pulse	$E_{on}$	$I_D = 200\text{ A}$ , $V_{DD} = 600\text{ V}$ , $L_\sigma = 8\text{ nH}$ , $V_{GS} = -3/18\text{ V}$ , $R_{Gon} = 2.4\ \Omega$ , $di/dt = 14\text{ kA}/\mu\text{s}$ ( $T_{vj} = 175\text{ °C}$ ), $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25\text{ °C}$	3.09		mJ
			$T_{vj} = 125\text{ °C}$	3.65		
			$T_{vj} = 175\text{ °C}$	4.08		
Turn-on energy loss per pulse, optimized	$E_{on,o}$	$I_D = 200\text{ A}$ , $V_{DD} = 600\text{ V}$ , $L_\sigma = 8\text{ nH}$ , $V_{GS} = -3/18\text{ V}$ , $R_{Gon,o} = 1.5\ \Omega$ , $di/dt = 17.1\text{ kA}/\mu\text{s}$ ( $T_{vj} = 175\text{ °C}$ ), $t_{dead} = 100\text{ ns}$	$T_{vj} = 25\text{ °C}$	2.25		mJ
			$T_{vj} = 125\text{ °C}$	2.26		
			$T_{vj} = 175\text{ °C}$	2.37		
Turn-off energy loss per pulse	$E_{off}$	$I_D = 200\text{ A}$ , $V_{DD} = 600\text{ V}$ , $L_\sigma = 8\text{ nH}$ , $V_{GS} = -3/18\text{ V}$ , $R_{Goff} = 0.22\ \Omega$ , $dv/dt = 44.5\text{ kV}/\mu\text{s}$ ( $T_{vj} = 175\text{ °C}$ )	$T_{vj} = 25\text{ °C}$	0.67		mJ
			$T_{vj} = 125\text{ °C}$	0.67		
			$T_{vj} = 175\text{ °C}$	0.69		
SC data	$I_{SC}$	$V_{GS} = -5/15\text{ V}$ , $V_{DD} = 800\text{ V}$ , $V_{DSmax} = V_{DSS} - L_{SDS} \cdot di/dt$ , $R_G = 10\ \Omega$	$t_P = 2\ \mu\text{s}$ , $T_{vj} = 25\text{ °C}$	1680		A
			$t_P = 2\ \mu\text{s}$ , $T_{vj} = 150\text{ °C}$	1640		
Thermal resistance, junction to heat sink	$R_{thJH}$	per MOSFET, $\lambda_{grease} = 1\text{ W}/(\text{m}\cdot\text{K})$		0.192		K/W
Temperature under switching conditions	$T_{vj,op}$		-40		175	°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.

$T_{vj,op} > 150\text{ °C}$  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	$I_{SD}$	$T_{vj} = 175\text{ °C}$ , $V_{GS} = -3\text{ V}$ $T_H = 85\text{ °C}$	110	A

**Table 7** Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	$V_{SD}$	$I_{SD} = 200 \text{ A}$ , $V_{GS} = -3 \text{ V}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	4.2	5.35	V
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	3.9		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	3.8		
Peak reverse recovery current	$I_{rrm}$	$I_{SD} = 200 \text{ A}$ , $di_s/dt = 14 \text{ kA}/\mu\text{s}$ , $V_{DD} = 600 \text{ V}$ , $V_{GS} = -3 \text{ V}$ , $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	115		A
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	180		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	219		
Recovered charge	$Q_{rr}$	$I_{SD} = 200 \text{ A}$ , $di_s/dt = 14 \text{ kA}/\mu\text{s}$ , $V_{DD} = 600 \text{ V}$ , $V_{GS} = -3 \text{ V}$ , $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	1.9		$\mu\text{C}$
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	3.4		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	4.5		
Reverse recovery energy	$E_{rec}$	$I_{SD} = 200 \text{ A}$ , $di_s/dt = 14 \text{ kA}/\mu\text{s}$ ( $T_{vj} = 175 \text{ }^{\circ}\text{C}$ ), $V_{DD} = 600 \text{ V}$ , $V_{GS} = -3 \text{ V}$ , $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	0.53		mJ
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	0.92		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	1.24		
Reverse recovery energy, optimized	$E_{rec,o}$	$I_{SD} = 200 \text{ A}$ , $di_s/dt = 17.1 \text{ kA}/\mu\text{s}$ ( $T_{vj} = 175 \text{ }^{\circ}\text{C}$ ), $V_{DD} = 600 \text{ V}$ , $V_{GS} = -3 \text{ V}$ , $t_{dead} = 100 \text{ ns}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	0.38		mJ
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	0.51		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	0.64		

## 4 NTC-Thermistor

**Table 8** Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Rated resistance	$R_{25}$	$T_{NTC} = 25 \text{ }^{\circ}\text{C}$		5		k $\Omega$
Deviation of $R_{100}$	$\Delta R/R$	$T_{NTC} = 100 \text{ }^{\circ}\text{C}$ , $R_{100} = 493 \text{ } \Omega$	-5		5	%
Power dissipation	$P_{25}$	$T_{NTC} = 25 \text{ }^{\circ}\text{C}$			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

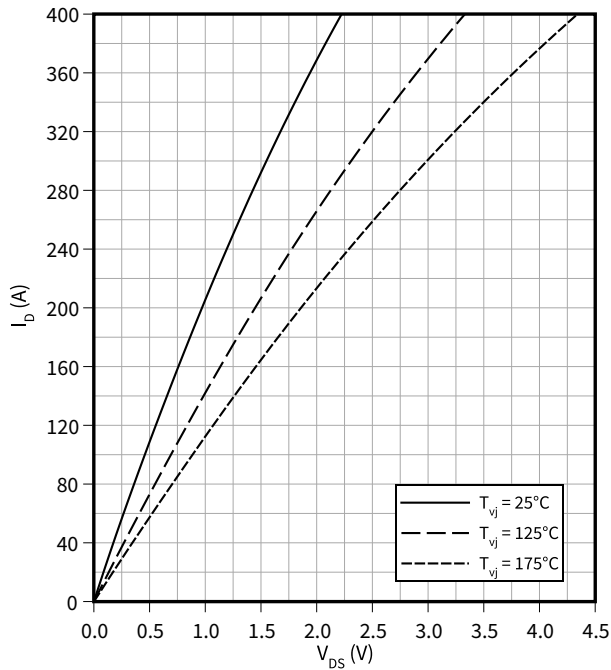
**Note:** For an analytical description of the NTC characteristics please refer to AN2009-10, chapter 4

5 Characteristics diagrams

Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

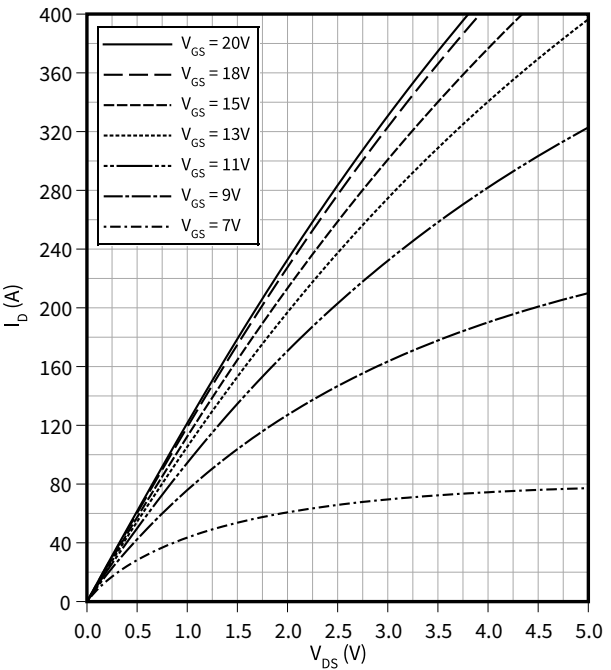
$V_{GS} = 15\text{ V}$



Output characteristic field(typical), MOSFET

$I_D = f(V_{DS})$

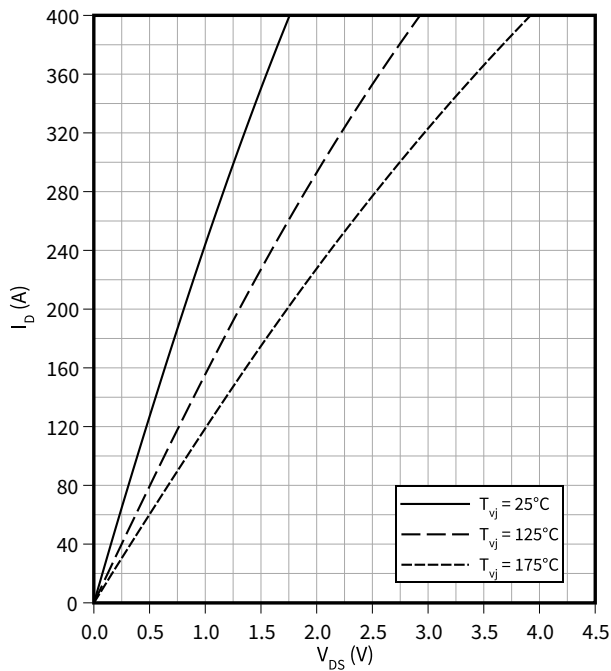
$T_{vj} = 175\text{ °C}$



Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

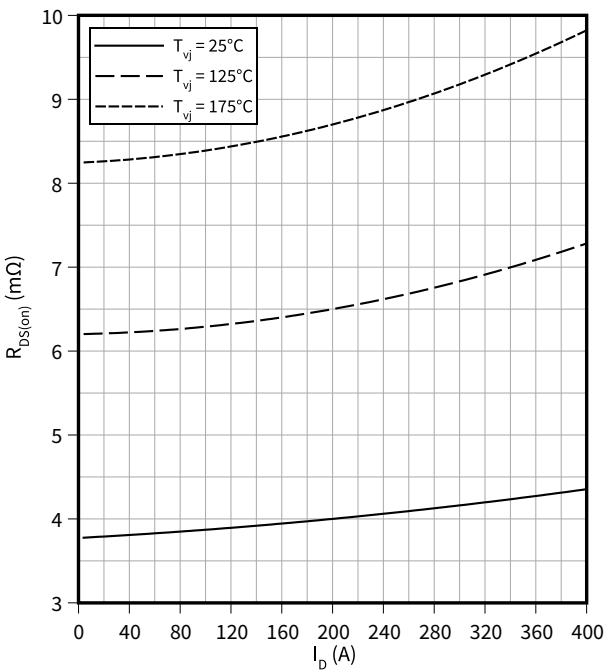
$V_{GS} = 18\text{ V}$



Drain source on-resistance (typical), MOSFET

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

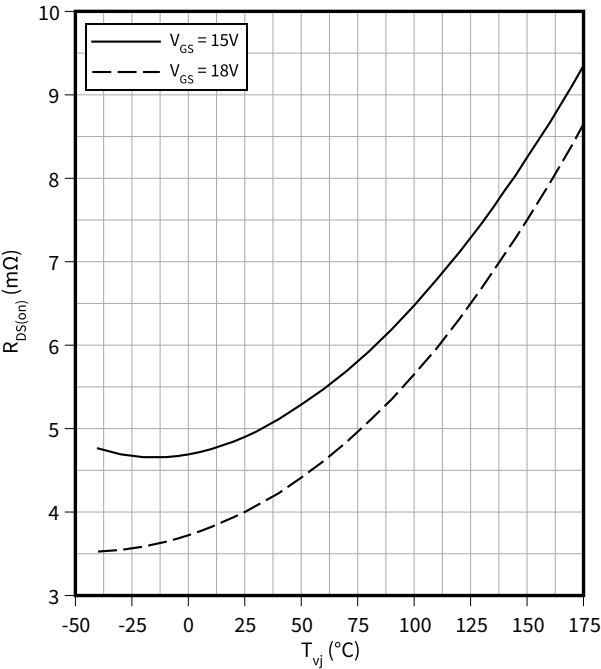
$V_{GS} = 18\text{ V}$



5 Characteristics diagrams

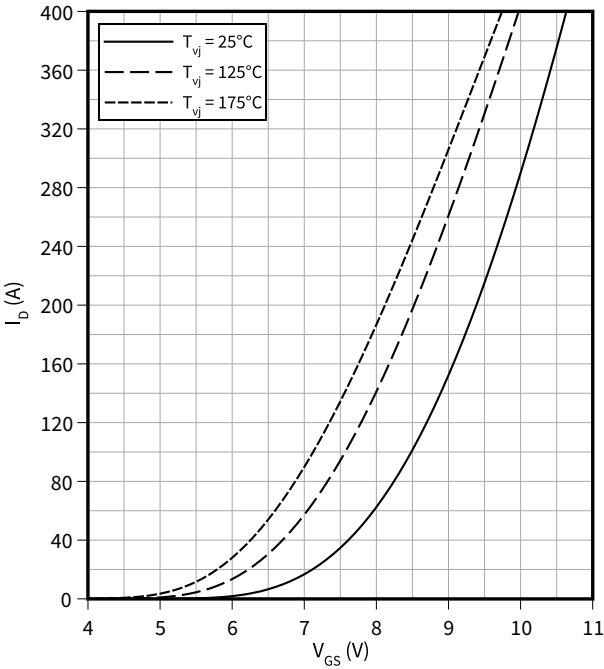
Drain source on-resistance (typical), MOSFET

$R_{DS(on)} = f(T_{vj})$   
 $I_D = 200\text{ A}$



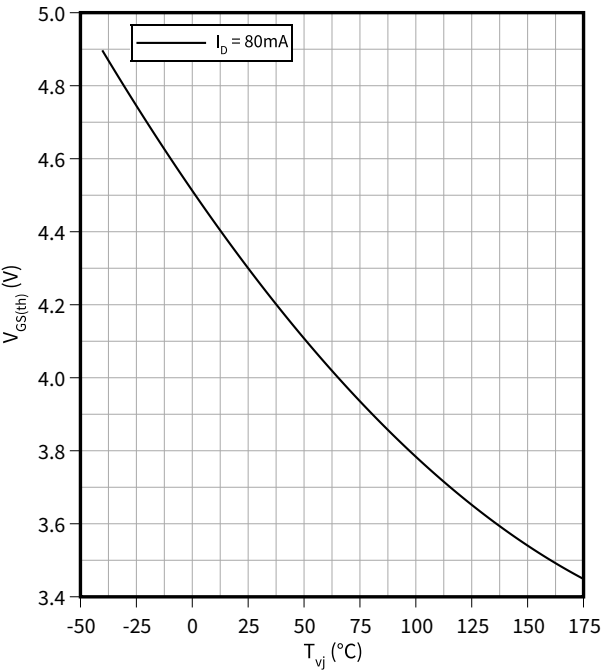
Transfer characteristic (typical), MOSFET

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



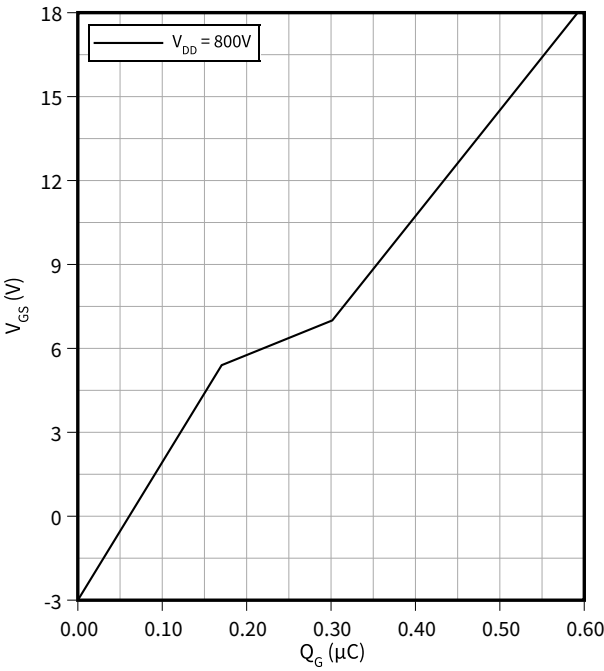
Gate-source threshold voltage (typical), MOSFET

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



Gate charge characteristic (typical), MOSFET

$V_{GS} = f(Q_G)$   
 $I_D = 200\text{ A}, T_{vj} = 25\text{ }^\circ C$

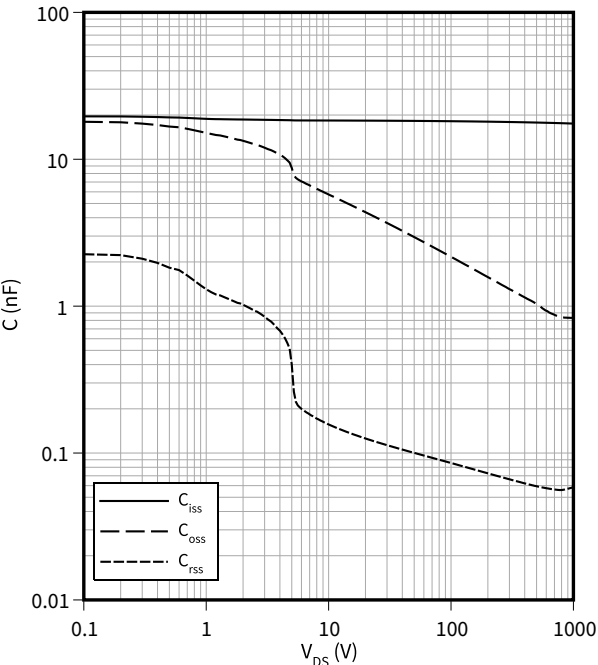




5 Characteristics diagrams

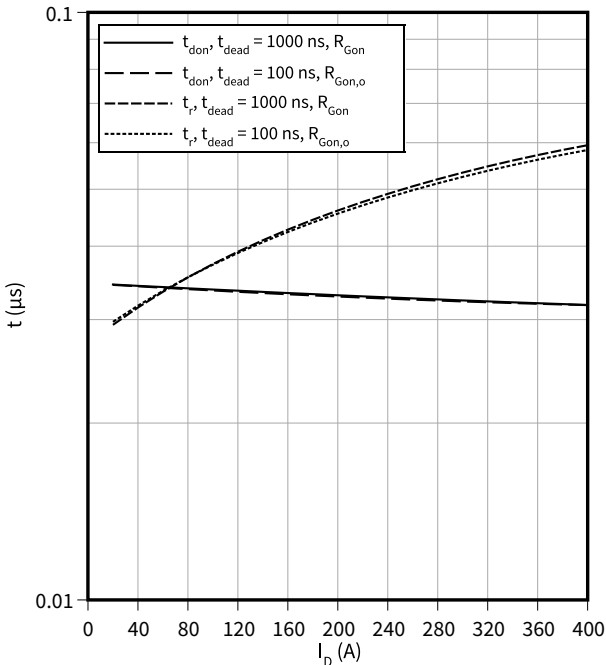
Capacity characteristic (typical), MOSFET

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



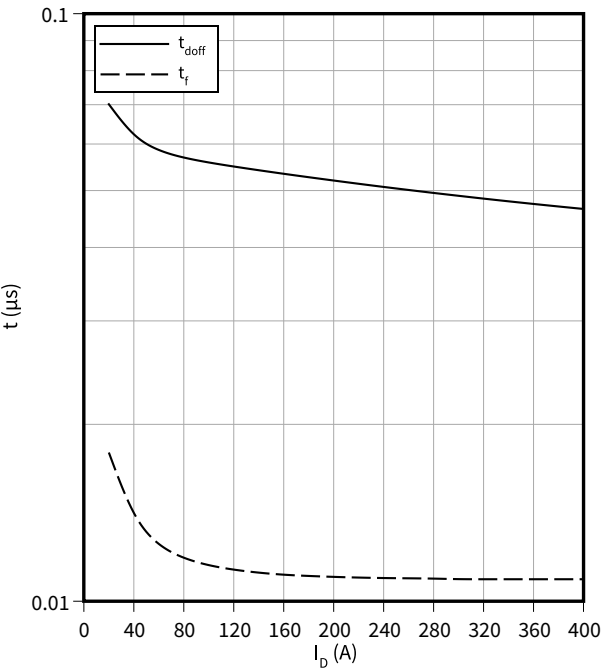
Switching times (typical), MOSFET

$t = f(I_D)$   
 $V_{DD} = 600\text{ V}$ ,  $R_{Gon} = 2.4\text{ }\Omega$ ,  $R_{Gon,o} = 1.5\text{ }\Omega$ ,  $T_{vj} = 175\text{ }^{\circ}\text{C}$ ,  $V_{GS} = -3/18\text{ V}$



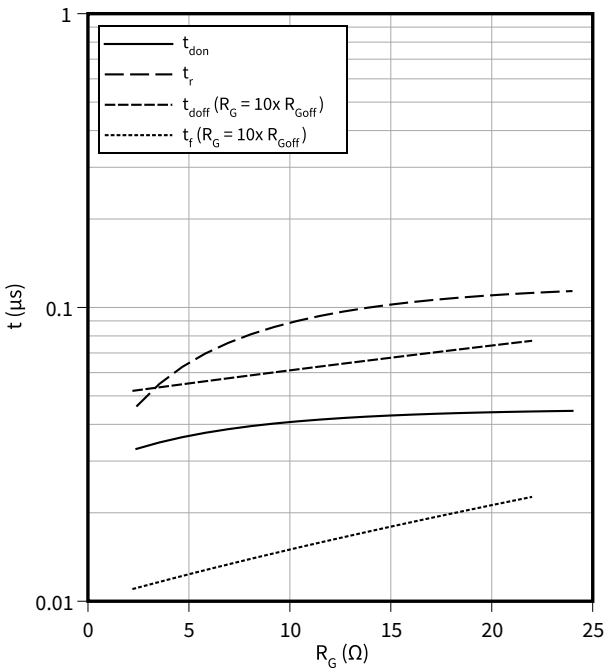
Switching times (typical), MOSFET

$t = f(I_D)$   
 $R_{Goff} = 0.22\text{ }\Omega$ ,  $V_{DD} = 600\text{ V}$ ,  $T_{vj} = 175\text{ }^{\circ}\text{C}$ ,  $V_{GS} = -3/18\text{ V}$



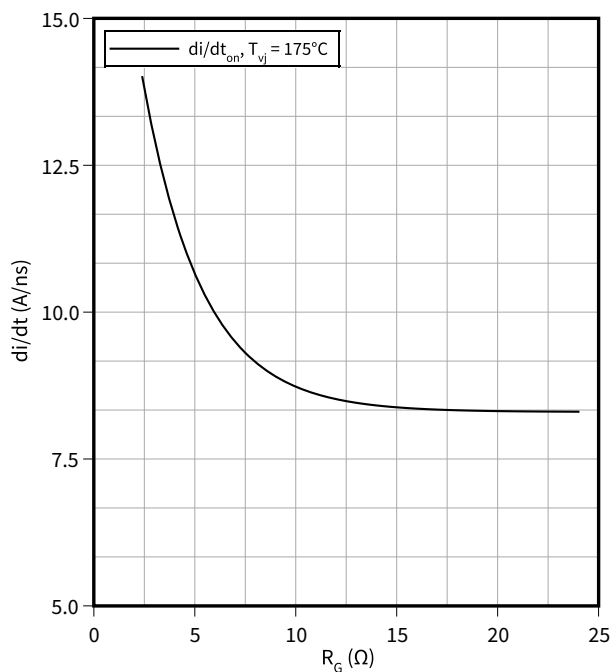
Switching times (typical), MOSFET

$t = f(R_G)$   
 $V_{DD} = 600\text{ V}$ ,  $t_{dead} = 1000\text{ ns}$ ,  $I_D = 200\text{ A}$ ,  $T_{vj} = 175\text{ }^{\circ}\text{C}$ ,  $V_{GS} = -3/18\text{ V}$

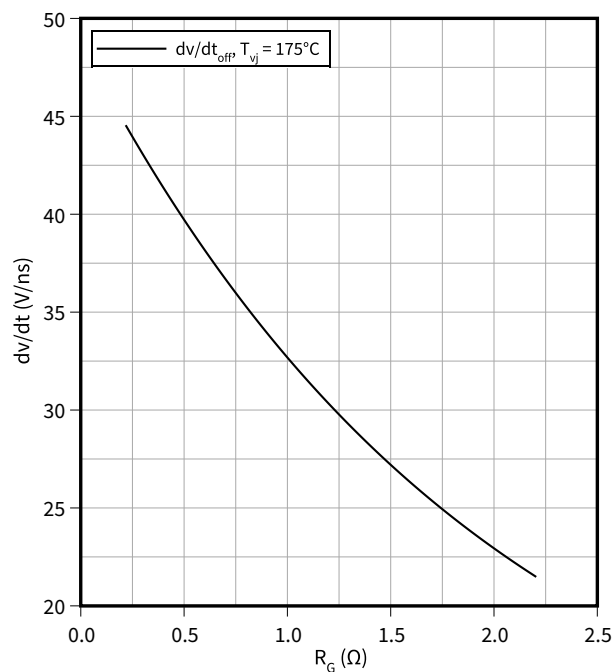


**Current slope (typical), MOSFET**

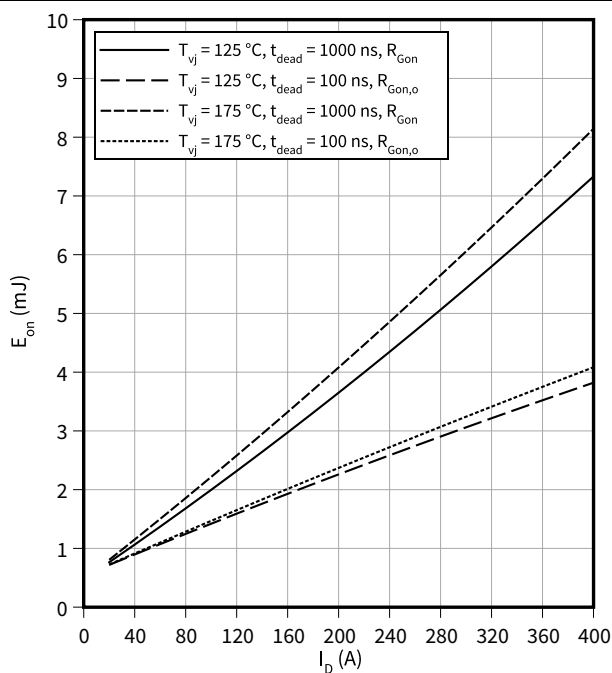
$$di/dt = f(R_G)$$

 $V_{DD} = 600 \text{ V}, t_{\text{dead}} = 1000 \text{ ns}, I_D = 200 \text{ A}, V_{GS} = -3/18 \text{ V}$ 
**Voltage slope (typical), MOSFET**

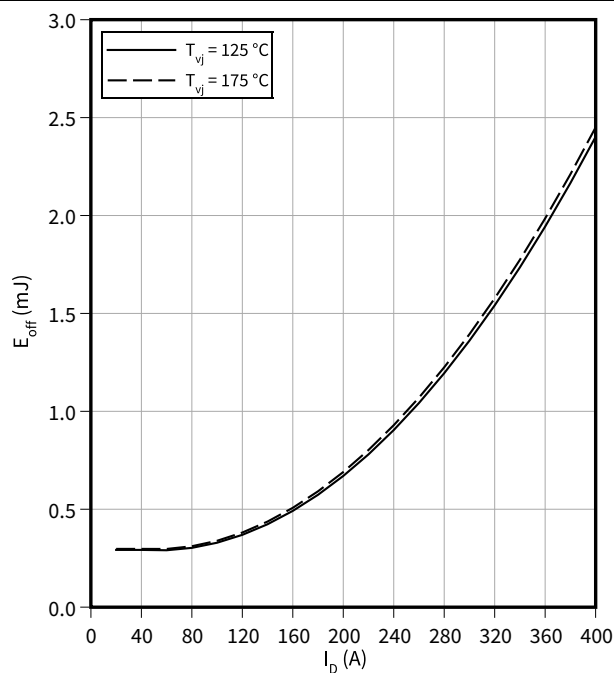
$$dv/dt = f(R_G)$$

 $V_{DD} = 600 \text{ V}, I_D = 200 \text{ A}, V_{GS} = -3/18 \text{ V}$ 
**Switching losses (typical), MOSFET**

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

 $V_{DD} = 600 \text{ V}, R_{G\text{on}} = 2.4 \Omega, R_{G\text{on},o} = 1.5 \Omega, V_{GS} = -3/18 \text{ V}$ 
**Switching losses (typical), MOSFET**

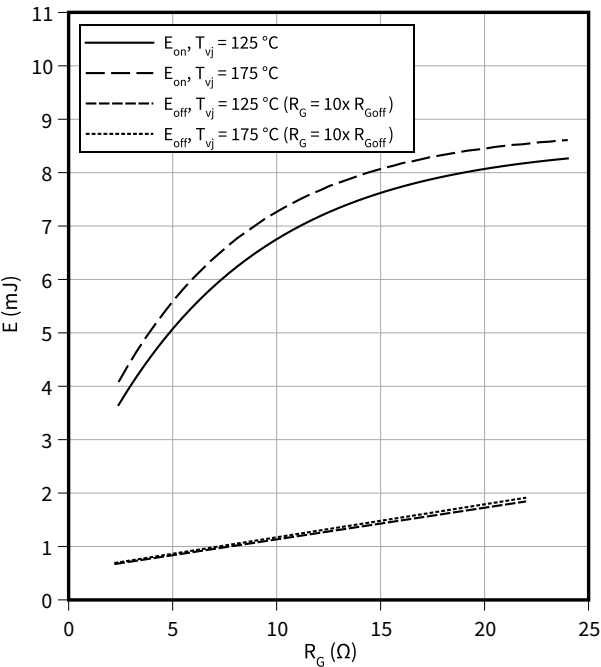
$$E_{\text{off}} = f(I_D)$$

 $R_{G\text{off}} = 0.22 \Omega, V_{DD} = 600 \text{ V}, V_{GS} = -3/18 \text{ V}$ 


5 Characteristics diagrams

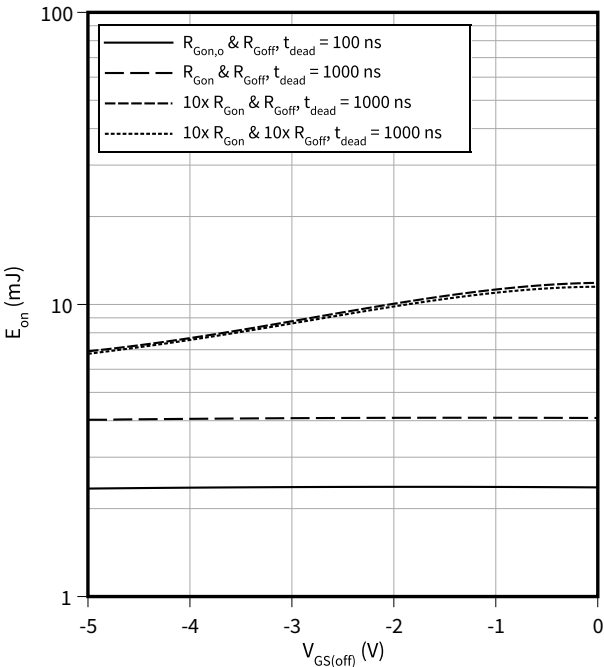
Switching losses (typical), MOSFET

$E = f(R_G)$   
 $V_{DD} = 600\text{ V}$ ,  $t_{dead} = 1000\text{ ns}$ ,  $I_D = 200\text{ A}$ ,  $V_{GS} = -3/18\text{ V}$



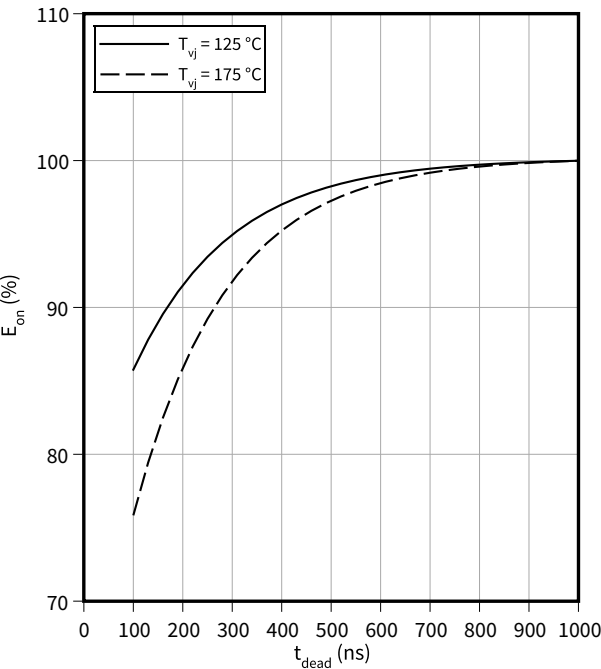
Switching losses (typical), MOSFET

$E_{on} = f(V_{GS(off)})$   
 $R_{Goff} = 0.22\text{ }\Omega$ ,  $V_{DD} = 600\text{ V}$ ,  $R_{Gon} = 2.4\text{ }\Omega$ ,  $V_{GS(on)} = 18\text{ V}$ ,  $I_D = 200\text{ A}$ ,  $R_{Gon,o} = 1.5\text{ }\Omega$ ,  $T_{vj} = 175\text{ }^\circ\text{C}$



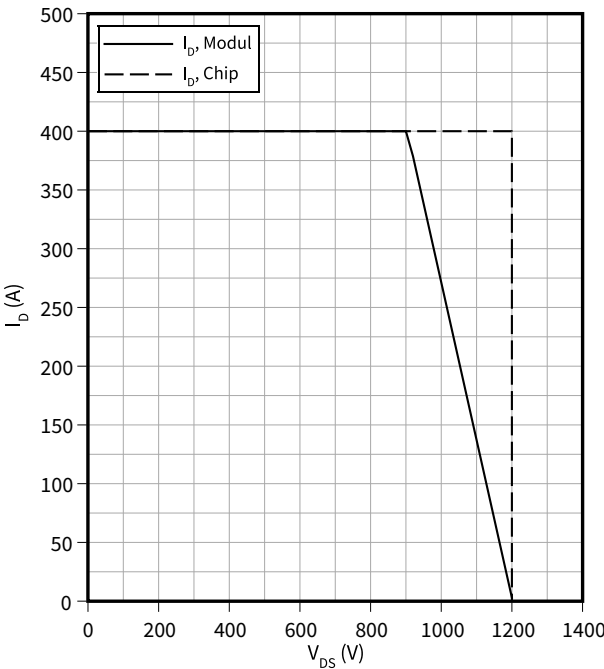
Switching losses (typical), MOSFET

$E_{on} = f(t_{dead})$   
 $R_{Gon} = 2.4\text{ }\Omega$ ,  $I_D = 200\text{ A}$ ,  $V_{DD} = 600\text{ V}$ ,  $V_{GS} = -3/18\text{ V}$



Reverse bias safe operating area (RBSOA), MOSFET

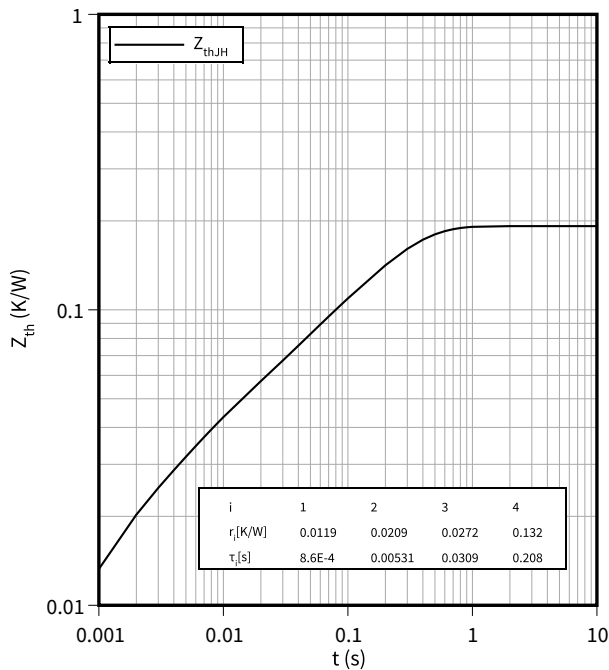
$I_D = f(V_{DS})$   
 $R_{Goff} = 0.22\text{ }\Omega$ ,  $T_{vj} = 175\text{ }^\circ\text{C}$ ,  $V_{GS} = -3/18\text{ V}$



5 Characteristics diagrams

Transient thermal impedance, MOSFET

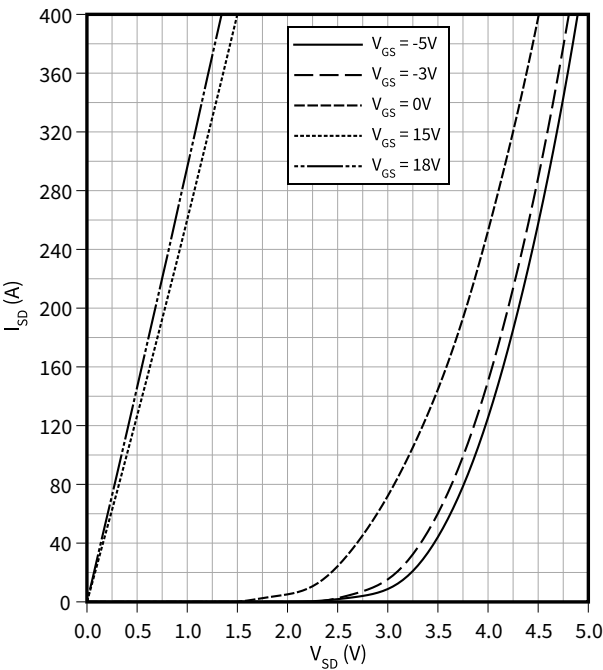
$Z_{th} = f(t)$



Forward characteristic body diode (typical), MOSFET

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

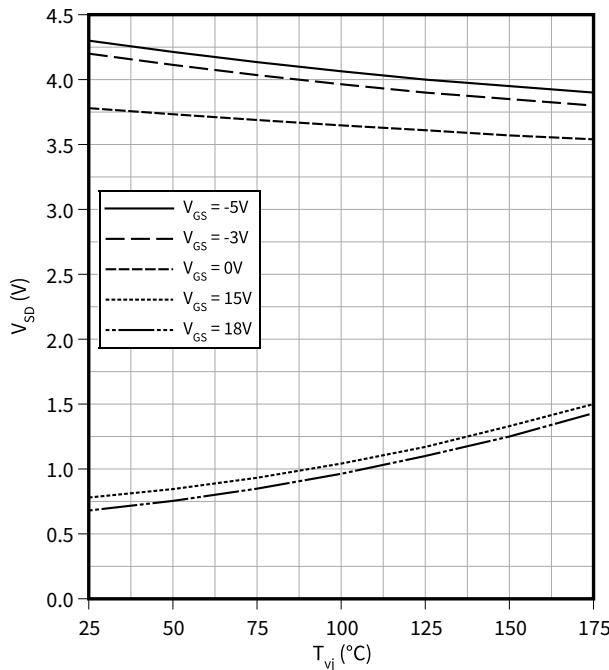
$T_{vj} = 25\text{ }^{\circ}\text{C}$



Forward voltage of body diode (typical), MOSFET

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

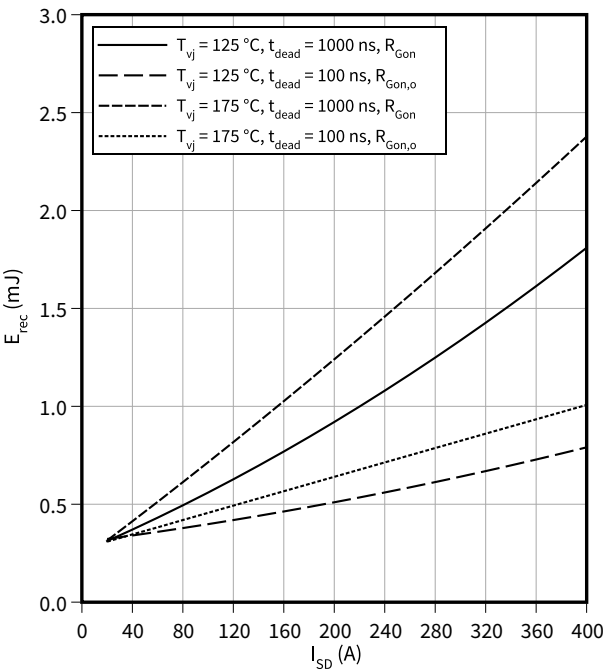
$I_{SD} = 200\text{ A}$



Switching losses body diode (typical), MOSFET

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

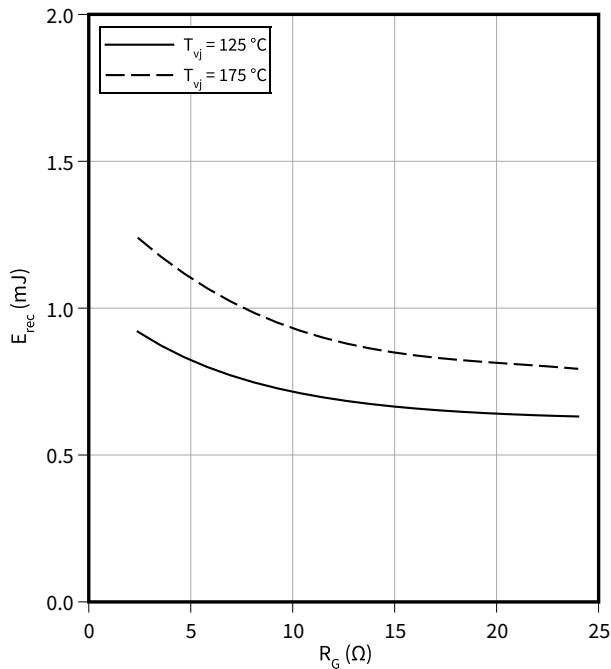
$R_{Gon} = 2.4\text{ }\Omega$ ,  $R_{Gon,o} = 1.5\text{ }\Omega$ ,  $V_{DD} = 600\text{ V}$



5 Characteristics diagrams

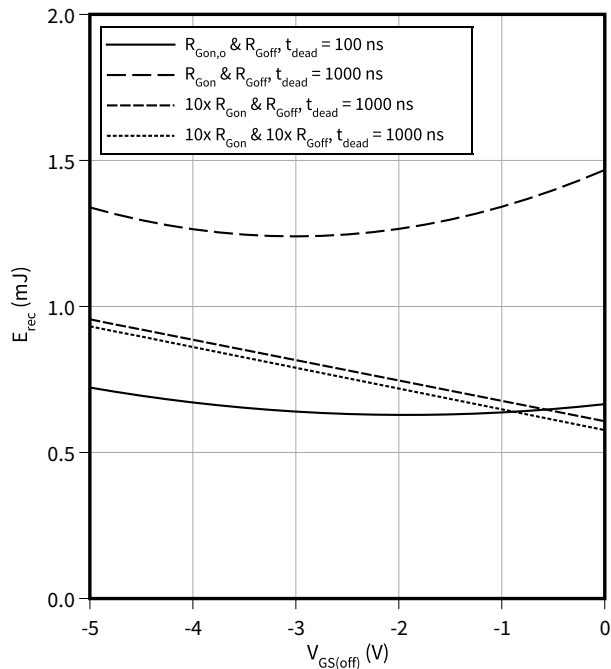
Switching losses body diode (typical), MOSFET

$E_{rec} = f(R_G)$   
 $t_{dead} = 1000\text{ ns}$ ,  $I_{SD} = 200\text{ A}$ ,  $V_{DD} = 600\text{ V}$



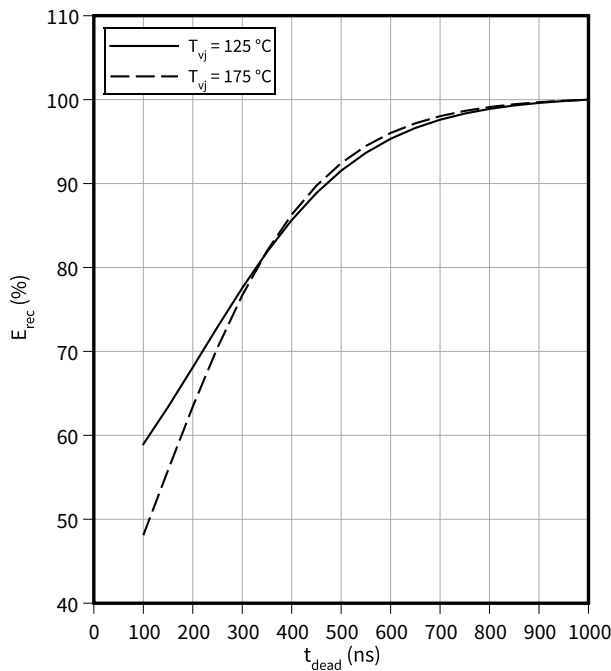
Switching losses body diode (typical), MOSFET

$E_{rec} = f(V_{GS(off)})$   
 $R_{Goff} = 0.22\text{ }\Omega$ ,  $R_{Gon} = 2.4\text{ }\Omega$ ,  $V_{GS(on)} = 18\text{ V}$ ,  $I_{SD} = 200\text{ A}$ ,  
 $R_{Gon,o} = 1.5\text{ }\Omega$ ,  $V_{DD} = 600\text{ V}$ ,  $T_{vj} = 175\text{ }^\circ\text{C}$



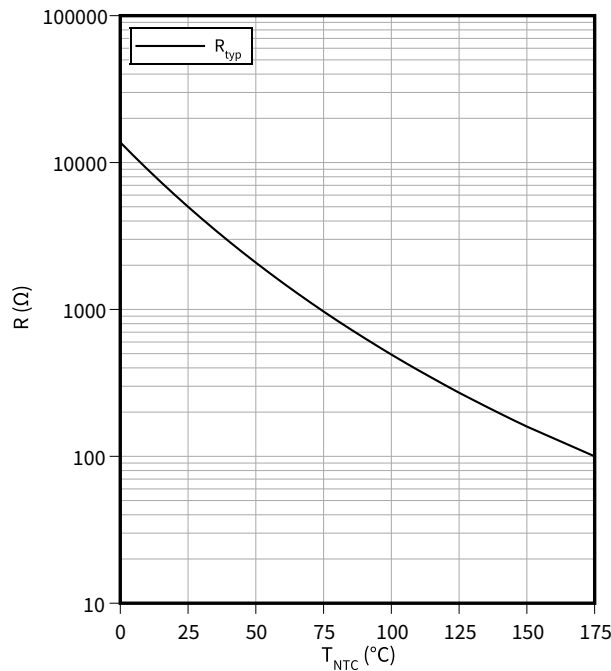
Switching losses body diode (typical), MOSFET

$E_{rec} = f(t_{dead})$   
 $R_{Gon} = 2.4\text{ }\Omega$ ,  $I_D = 200\text{ A}$ ,  $V_{DD} = 600\text{ V}$ ,  $V_{GS} = -3/18\text{ V}$



Temperature characteristic (typical), NTC-Thermistor

$R = f(T_{NTC})$



6 Circuit diagram

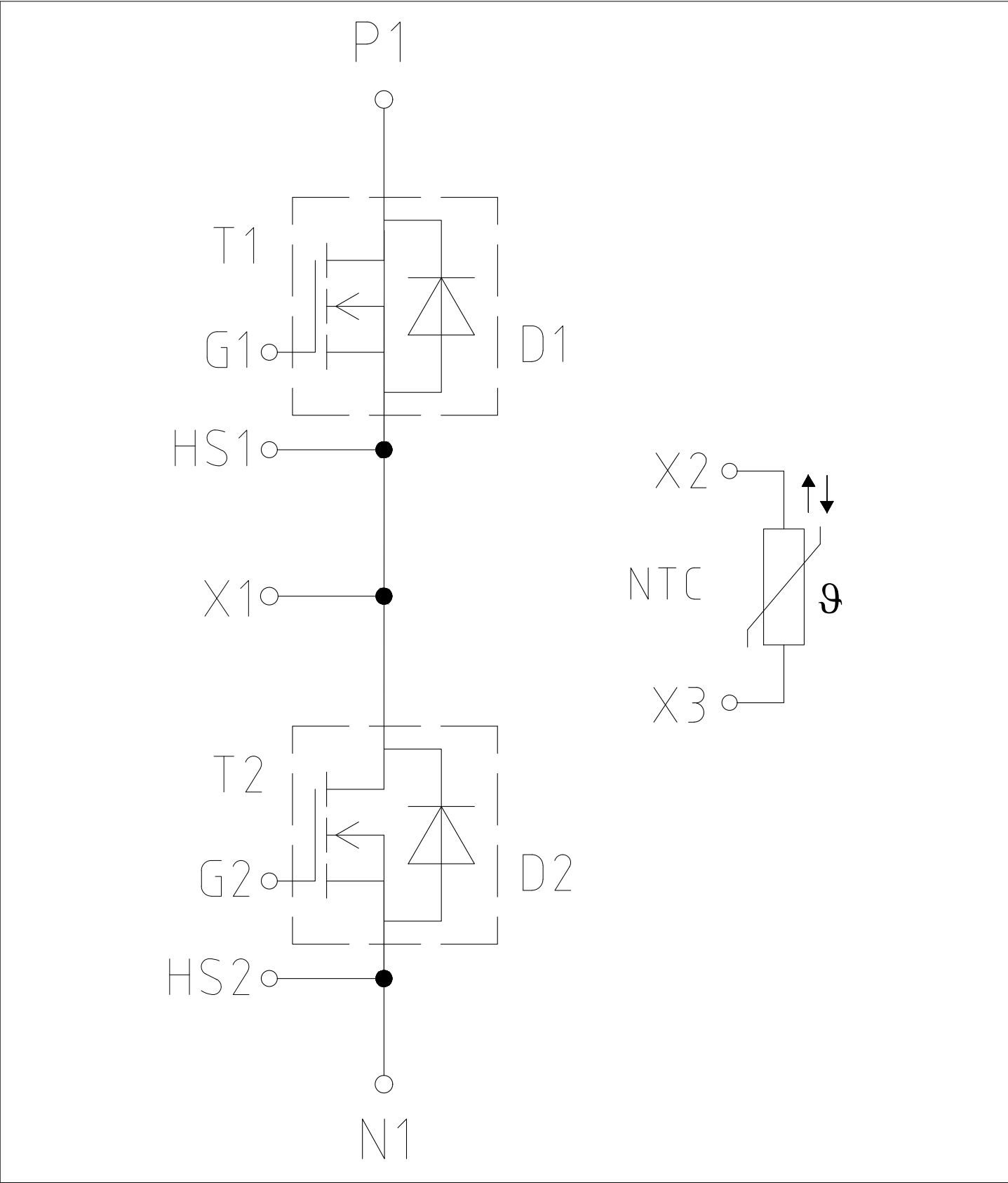


Figure 1

## 7 Package outlines

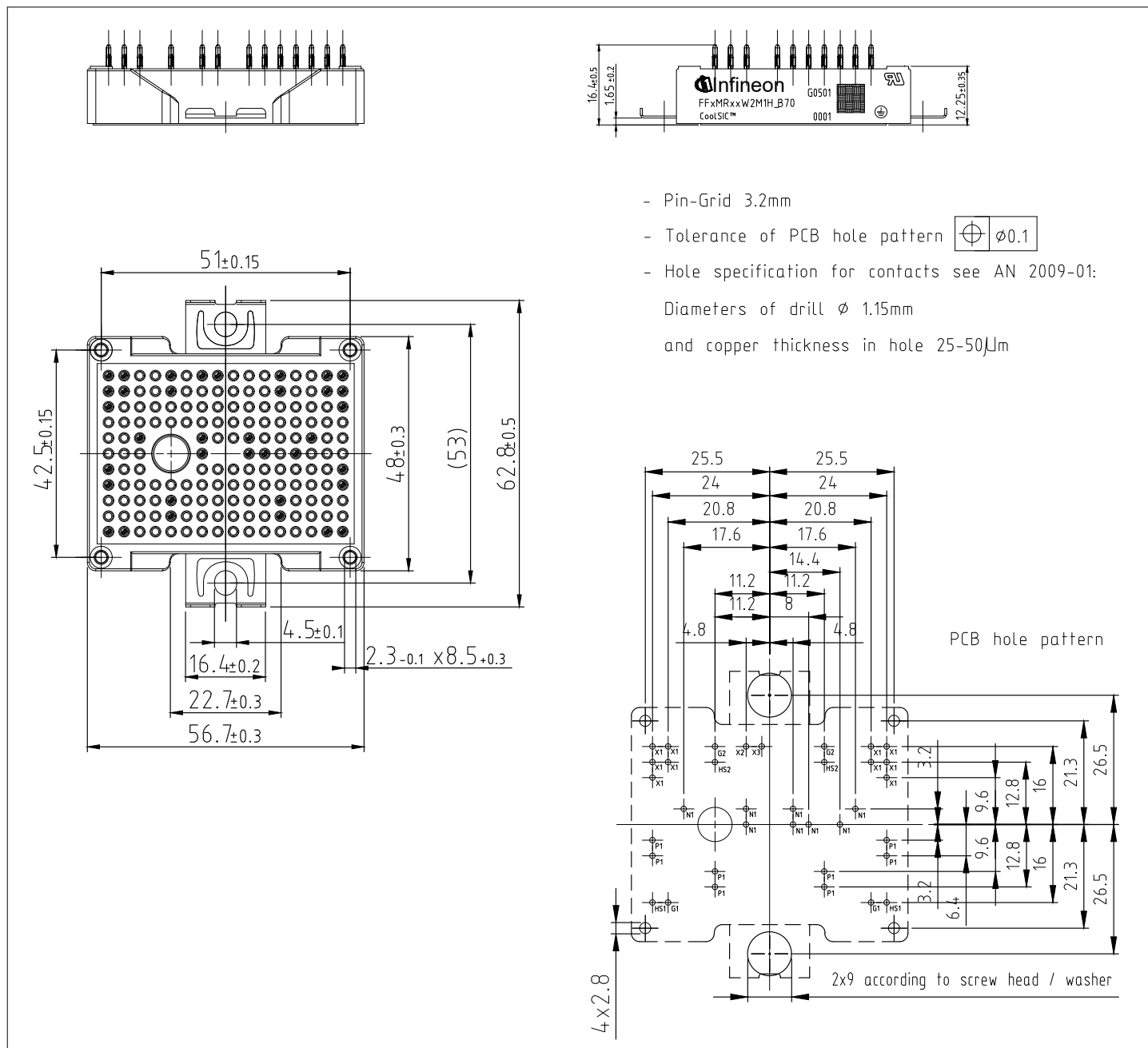


Figure 2

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 version	Date of release	Description of changes
0.10	2022-12-02	Initial version
0.20	2023-05-04	Preliminary datasheet
1.00	2025-04-11	Final datasheet

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