

## Final datasheet

### HybridPACK™ Drive G2 module with SiC MOSFET

#### Features

- Electrical features
  - $V_{DSS} = 1200 \text{ V}$
  - $I_{DN} = 310 \text{ A}$
  - New semiconductor material - silicon carbide
  - Low  $R_{DS,\text{on}}$
  - Low switching losses
  - Low  $Q_g$  and  $C_{rss}$
  - Low inductive design
  - $T_{vj,\text{op}} = 175^\circ\text{C}$
  - Short-time extended operation temperature  $T_{vj,\text{op}} = 200^\circ\text{C}$
- Mechanical features
  - 4.2 kV DC 1 second insulation
  - High creepage and clearance distances
  - Compact design
  - High power density
  - Direct-cooled PinFin base plate
  - High-performance  $\text{Si}_3\text{N}_4$  ceramic
  - Guiding elements for PCB and cooler assembly
  - Integrated temperature sensing diode
  - PressFIT contact technology
  - RoHS compliant, lead-free
  - UL 94 V0 module frame



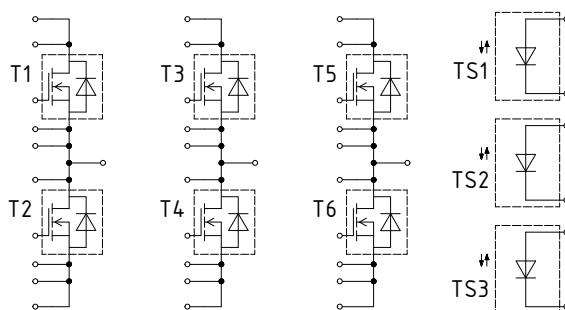
#### Potential applications

- Automotive applications
- (Hybrid) electrical vehicles (H)EV
- Motor drives
- Commercial, construction and agricultural vehicles (CAV)

#### Product validation

- Qualified according to AQG 324, release no.: 03.1/2021

#### Description



## Table of contents

<b>Description</b> .....	1
<b>Features</b> .....	1
<b>Potential applications</b> .....	1
<b>Product validation</b> .....	1
<b>Table of contents</b> .....	2
<b>1 Package</b> .....	3
<b>2 MOSFET</b> .....	4
<b>3 Body diode (MOSFET)</b> .....	6
<b>4 Temperature sensor</b> .....	7
<b>5 Characteristics diagrams</b> .....	8
<b>6 Circuit diagram</b> .....	13
<b>7 Package outlines</b> .....	14
<b>8 Module label code</b> .....	17
<b>Revision history</b> .....	18
<b>Disclaimer</b> .....	19

1 Package

## 1 Package

**Table 1 Insulation coordination**

Parameter	Symbol	Note or test condition	Values		Unit
Isolation test voltage	$V_{ISOL}$	RMS, $f = 0$ Hz, $t = 1$ sec	4.20		kV
Material of module baseplate			Cu+Ni <sup>1)</sup>		
Internal isolation		basic insulation (class 1, IEC 61140)	$Si_3N_4$		
Creepage distance	$d_{creep}$	terminal to heatsink	10.6		mm
Creepage distance	$d_{creep}$	terminal to terminal	10.6		mm
Clearance	$d_{clear}$	terminal to heatsink	4.5		mm
Clearance	$d_{clear}$	terminal to terminal	4.5		mm
Comparative tracking index	$CTI$		> 175		

1) Ni plated Cu baseplate

**Table 2 Maximum rated values**

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Maximum RMS module terminal current	$I_{t,rms}$		600			A
Heat-staking dome temperature <sup>1)</sup>	$T_{HS}$	$t_{staking} < 10s$			280	°C

1) Heat-staking according to application note AN-G2-ASSEMBLY.

**Table 3 Characteristic values**

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Pressure drop in cooling circuit	$\Delta p$	50% water / 50% ethylenglycol, $\Delta V/\Delta t = 10 \text{ dm}^3/\text{min}$ , $T_f = 60^\circ\text{C}$		76 <sup>1)</sup>		mbar
Maximum pressure in cooling circuit	$p$	$T_{baseplate} < 40^\circ\text{C}$			3.0	bar
		$T_{baseplate} \geq 40^\circ\text{C}$ (relative pressure)			2.5	
Stray inductance module	$L_{s,DS}$			8.0		nH
Module lead resistance, terminals - chip	$R_{DD'+SS'}$	$T_f = 25^\circ\text{C}$ , per switch		0.64		mΩ
Storage temperature	$T_{stg}$		-40 <sup>2)</sup>		125	°C
Mounting torque for module mounting <sup>3)</sup>	$M$	Screw M4 baseplate to heatsink	1.8	2.0	2.2	Nm
		Screw EJOT Delta PCB to frame	0.45	0.50	0.55	
Weight	$G$			760		g

1) Cooler design and flow direction according to application note AN-G2-ASSEMBLY

- 2) Verified by design, not by test  
 3) Screw types and torque according to application note AN-G2-ASSEMBLY

## 2 MOSFET

**Table 4 Maximum rated values**

Parameter	Symbol	Note or test condition		Values	Unit
Drain-source voltage	$V_{DSS}$		continuous operation	1200	V
			10h over life time	1400	
DC drain current	$I_{D,nom}$	$V_{GS} = 18 \text{ V}$ , $T_f = 65 \text{ }^\circ\text{C}$	$T_{vj,max} = 175 \text{ }^\circ\text{C}$	310	A
Pulsed drain current	$I_{D,pulse}$	verified by design, $t_p$ limited by $T_{vj,max}$		620	A
Gate-source voltage, max. static voltage	$V_{GS}$			-5/19	V
Gate-source voltage, max. transient voltage	$V_{GS}$	Duty Cycle <1% (first transient maximum peak)		-10/23	V

**Table 5 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...-3	V

**Table 6 Characteristic values**

Parameter	Symbol	Note or test condition	Values			Unit	
			Min.	Typ.	Max.		
Drain-source on-resistance	$R_{DS,on}$	$I_D = 310 \text{ A}$ , $V_{GS} = 18 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		2.54	mΩ	
			$T_{vj} = 125 \text{ }^\circ\text{C}$		4.28		
			$T_{vj} = 175 \text{ }^\circ\text{C}$		5.64		
			$T_{vj} = 200 \text{ }^\circ\text{C}$		6.49		
Drain-source on-resistance	$R_{DS,on}$	$I_D = 310 \text{ A}$ , $V_{GS} = 15 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		3.16	mΩ	
			$T_{vj} = 125 \text{ }^\circ\text{C}$		4.94		
			$T_{vj} = 175 \text{ }^\circ\text{C}$		6.39		
			$T_{vj} = 200 \text{ }^\circ\text{C}$		7.31		
Gate threshold voltage	$V_{GS,th}$	$I_D = 120 \text{ mA}$ , $V_{GS} = V_{DS}$ , (tested after 1ms pulse at $V_{GS} = +20 \text{ V}$ )	$T_{vj} = 25 \text{ }^\circ\text{C}$	3.20 <sup>1)</sup>	3.98	4.55	V
Total gate charge	$Q_G$	$V_{DS} = 750 \text{ V}$ , $V_{GS} = -5/18 \text{ V}$			0.87		μC
Internal gate resistor	$R_{G,int}$		$T_{vj} = 25 \text{ }^\circ\text{C}$		0.88		Ω
Input capacitance	$C_{iss}$	$f = 1 \text{ MHz}$ , $V_{DS} = 750 \text{ V}$	$T_{vj} = 25 \text{ }^\circ\text{C}$		25.9		nF

(table continues...)

**Table 6 (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>	
Output capacitance	$C_{oss}$	$f = 1 \text{ MHz}, V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		0.95	nF
Reverse transfer capacitance	$C_{rss}$	$f = 1 \text{ MHz}, V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		0.08	nF
$C_{oss}$ stored energy	$E_{oss}$	$V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		1002	$\mu\text{J}$
Drain-source leakage current	$I_{DSX}$	$V_{GS} = -5 \text{ V}, V_{DSS} = 1200 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		530	$\mu\text{A}$
Gate-source leakage current	$I_{GSS}$	$V_{GS} = 20 \text{ V}, V_{DS} = 0 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		100	nA
Turn-on delay time, inductive load	$t_{d,on}$	$I_D = 310 \text{ A}, R_{G,on} = 8.2 \Omega, V_{GS} = -5/18 \text{ V}, V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		75	ns
			$T_{vj} = 125^\circ\text{C}$		67	
			$T_{vj} = 175^\circ\text{C}$		63	
			$T_{vj} = 200^\circ\text{C}$		62	
Rise time (inductive load)	$t_r$	$I_D = 310 \text{ A}, R_{G,on} = 8.2 \Omega, V_{GS} = -5/18 \text{ V}, V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		52	ns
			$T_{vj} = 125^\circ\text{C}$		48	
			$T_{vj} = 175^\circ\text{C}$		47	
			$T_{vj} = 200^\circ\text{C}$		47	
Turn-off delay time, inductive load	$t_{d,off}$	$I_D = 310 \text{ A}, R_{G,off} = 2.3 \Omega, V_{GS} = -5/18 \text{ V}, V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		134	ns
			$T_{vj} = 125^\circ\text{C}$		143	
			$T_{vj} = 175^\circ\text{C}$		149	
			$T_{vj} = 200^\circ\text{C}$		153	
Fall time (inductive load)	$t_f$	$I_D = 310 \text{ A}, R_{G,off} = 2.3 \Omega, V_{GS} = -5/18 \text{ V}, V_{DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		40	ns
			$T_{vj} = 125^\circ\text{C}$		43	
			$T_{vj} = 175^\circ\text{C}$		44	
			$T_{vj} = 200^\circ\text{C}$		45	
Turn-on energy loss per pulse	$E_{on}$	$I_D = 310 \text{ A}, R_{G,on} = 8.2 \Omega, V_{GS} = -5/18 \text{ V}, V_{DS} = 750 \text{ V}, L_\sigma = 6.5 \text{ nH}$	$T_{vj} = 25^\circ\text{C}, di/dt = 4.8 \text{ kA}/\mu\text{s}$		14.50	mJ
			$T_{vj} = 125^\circ\text{C}, di/dt = 5.2 \text{ kA}/\mu\text{s}$		14.90	
			$T_{vj} = 175^\circ\text{C}, di/dt = 5.4 \text{ kA}/\mu\text{s}$		16.40	
			$T_{vj} = 200^\circ\text{C}, di/dt = 5.4 \text{ kA}/\mu\text{s}$		16.60	

(table continues...)

**Table 6 (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>		
Turn-off energy loss per pulse	$E_{\text{off}}$	$I_D = 310 \text{ A}$ , $R_{G,\text{off}} = 2.3 \Omega$ , $V_{GS} = -5/18 \text{ V}$ , $V_{DS} = 750 \text{ V}$ , $L_\sigma = 6.5 \text{ nH}$	$T_{vj} = 25 \text{ }^\circ\text{C}$ , $dv/dt = 23.4 \text{ kV}/\mu\text{s}$		5.90	$\text{mJ}$	
			$T_{vj} = 125 \text{ }^\circ\text{C}$ , $dv/dt = 22.3 \text{ kV}/\mu\text{s}$		6.30		
			$T_{vj} = 175 \text{ }^\circ\text{C}$ , $dv/dt = 21.7 \text{ kV}/\mu\text{s}$		6.50		
			$T_{vj} = 200 \text{ }^\circ\text{C}$ , $dv/dt = 21.4 \text{ kV}/\mu\text{s}$		6.60		
Short circuit data	$I_{SC}$	$V_{DD} = 750 \text{ V}$ , $V_{GS} = -5/18 \text{ V}$ , $R_{G,\text{on}} = 8.2 \Omega$ , $R_{G,\text{off}} = 2.3 \Omega$ , $V_{DS\text{max}} = V_{DSS} - L_{sDS} \cdot di/dt$	$t_{SC} < 1.2 \mu\text{s}$ , $T_{vj} = 200 \text{ }^\circ\text{C}$		5300	A	
Short circuit data	$I_{SC}$	$V_{DD} = 750 \text{ V}$ , $V_{GS} = -5/15 \text{ V}$ , $R_{G,\text{on}} = 8.2 \Omega$ , $R_{G,\text{off}} = 2.3 \Omega$ , $V_{DS\text{max}} = V_{DSS} - L_{sDS} \cdot di/dt$	$t_{SC} < 2 \mu\text{s}$ , $T_{vj} = 200 \text{ }^\circ\text{C}$		3800	A	
Thermal resistance, junction to cooling fluid <sup>2)</sup>	$R_{th,j-f}$	per MOSFET, 50% water / 50% ethylenglycol, $\Delta V/\Delta t = 10 \text{ dm}^3/\text{min}$ , $T_f = 60 \text{ }^\circ\text{C}$			0.139	0.144 <sup>3)</sup> K/W	
Temperature under switching conditions	$T_{vj,op}$		continuous operation	-40		175	${}^\circ\text{C}$
			extended operation			200 <sup>4)</sup>	

1) At 0h operating time. During inverter operation the value can be lower depending on  $T_{vj}$ ,  $V_{GS(\text{off})}$ , (switching frequency)  $f_{sw}$  over lifetime. For a final assessment of  $V_{GS,\text{th}}$  Min. value depending on customer application please contact the Infineon sales office for the necessary technical support by Infineon.

2) Cooler design and flow direction according to application note AN-G2-ASSEMBLY

3) EoL criteria see AQG324, verified by characterization with 4.5 sigma

4) For 100h cumulated over life time

### 3 Body diode (MOSFET)

**Table 7 Maximum rated values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>		<b>Values</b>	<b>Unit</b>
Drain-source voltage	$V_{DSS}$		continuous operation	1200	V
			10h over lifetime	1400	
DC body diode forward current	$I_{F,S}$	$T_{vj,\text{max}} = 175 \text{ }^\circ\text{C}$ , $V_{GS} = -5 \text{ V}$	$T_f = 65 \text{ }^\circ\text{C}$	142	A
Pulsed body diode current	$I_{F,S,\text{pulse}}$	verified by design, $t_p$ limited by $T_{vj,\text{max}}$		620	A

4 Temperature sensor

**Table 8 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>	
Forward voltage	$V_{F,SD}$	$I_{F,S} = 310 \text{ A}, V_{GS} = -5 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		4.65	6.03
			$T_{vj} = 125^\circ\text{C}$		4.26	
			$T_{vj} = 175^\circ\text{C}$		4.10	
			$T_{vj} = 200^\circ\text{C}$		4.05	
Peak reverse recovery current	$I_{rrm}$	$I_{F,S} = 310 \text{ A}, V_{GS} = -5 \text{ V}, V_{R,DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		107	
			$T_{vj} = 125^\circ\text{C}$		166	
			$T_{vj} = 175^\circ\text{C}$		204	
			$T_{vj} = 200^\circ\text{C}$		219	
Recovered charge	$Q_{rr}$	$I_{F,S} = 310 \text{ A}, V_{GS} = -5 \text{ V}, V_{R,DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		1.69	
			$T_{vj} = 125^\circ\text{C}$		4.30	
			$T_{vj} = 175^\circ\text{C}$		6.50	
			$T_{vj} = 200^\circ\text{C}$		7.50	
Reverse recovery energy	$E_{rec}$	$I_{F,S} = 310 \text{ A}, V_{GS} = -5 \text{ V}, V_{R,DS} = 750 \text{ V}$	$T_{vj} = 25^\circ\text{C}, -di/dt = 7.2 \text{ kA}/\mu\text{s}$		0.3	
			$T_{vj} = 125^\circ\text{C}, -di/dt = 7.5 \text{ kA}/\mu\text{s}$		0.9	
			$T_{vj} = 175^\circ\text{C}, -di/dt = 7.6 \text{ kA}/\mu\text{s}$		1.5	
			$T_{vj} = 200^\circ\text{C}, -di/dt = 7.7 \text{ kA}/\mu\text{s}$		1.8	

## 4 Temperature sensor

**Table 9 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>	
Transient sense current	$I_{TS}$				10	mA
Forward voltage	$V_{TS}$		$I_{TS} = 1 \text{ mA}, T_{vj} = 25^\circ\text{C}$	2.891	2.941	2.991
			$I_{TS} = 1 \text{ mA}, T_{vj} = 105^\circ\text{C}$	2.393	2.453	2.513

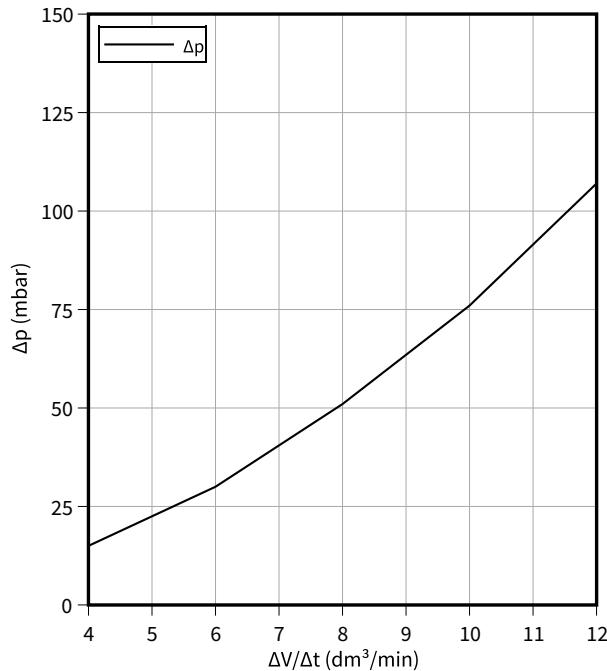
5 Characteristics diagrams

## 5 Characteristics diagrams

### Pressure drop in cooling circuit (typical), Package

$$\Delta p = f(\Delta V / \Delta t)$$

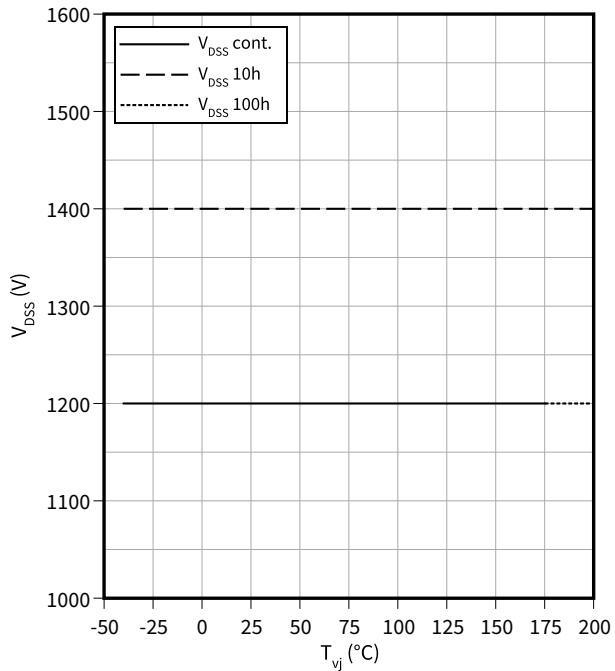
$T_f = 60^\circ\text{C}$ , fluid = 50% water / 50% ethylenglycol



### Maximum allowed drain-source voltage, MOSFET

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

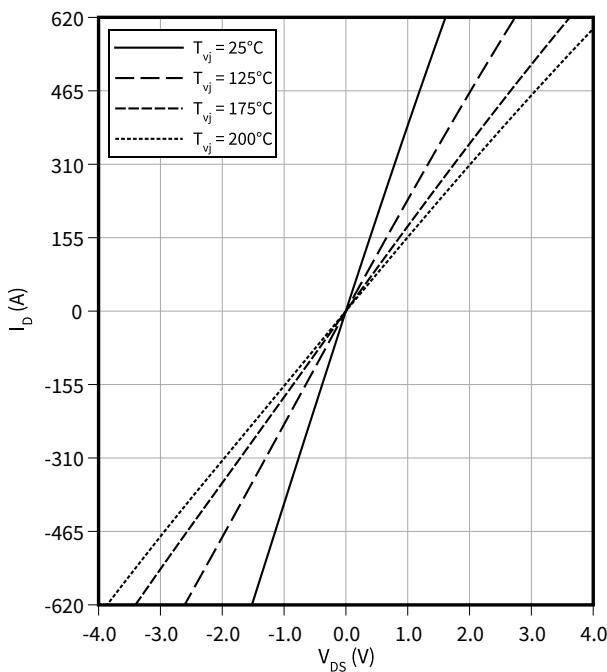
verified by characterization / design, not by test



### Output characteristic (typical), MOSFET

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

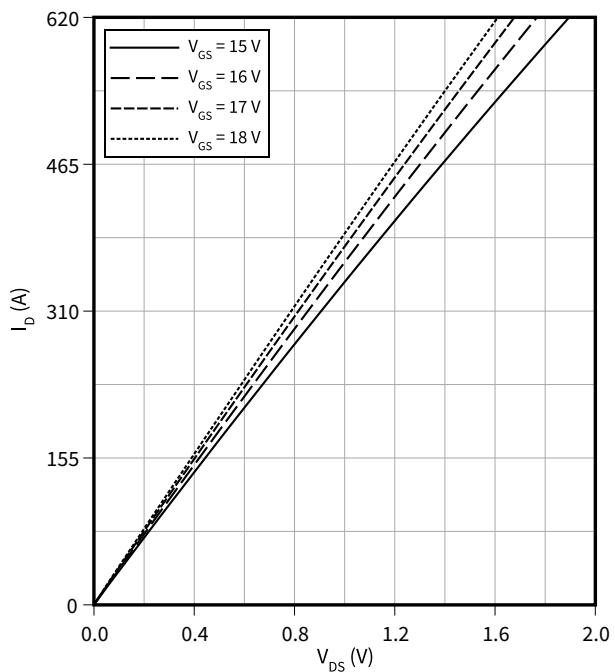
$V_{GS} = 18\text{ V}$



### Output characteristic (typical), MOSFET

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

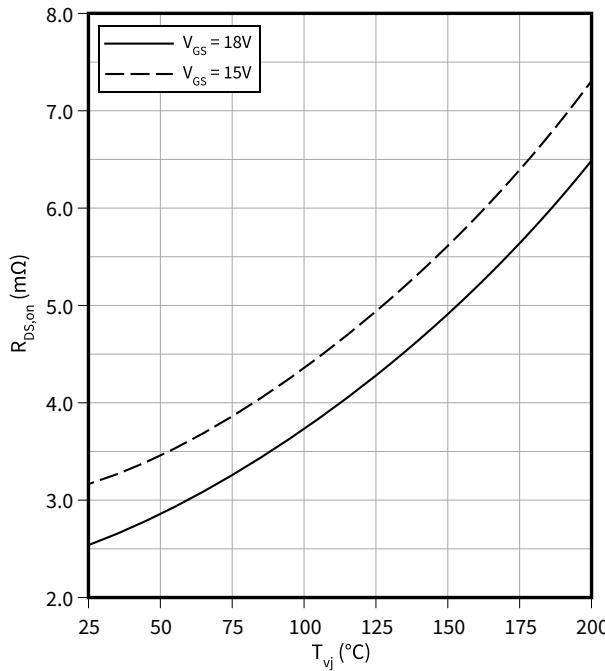
$T_{vj} = 25^\circ\text{C}$



5 Characteristics diagrams

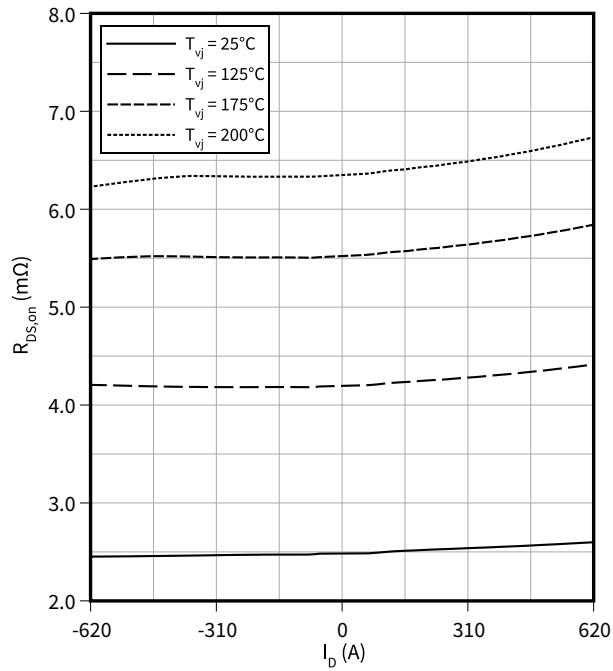
**Drain-source on-resistance (typical), MOSFET**

$R_{DS,ON} = f(T_{vj})$   
 $I_D = 310 \text{ A}, V_{GS} = 18 \text{ V}$



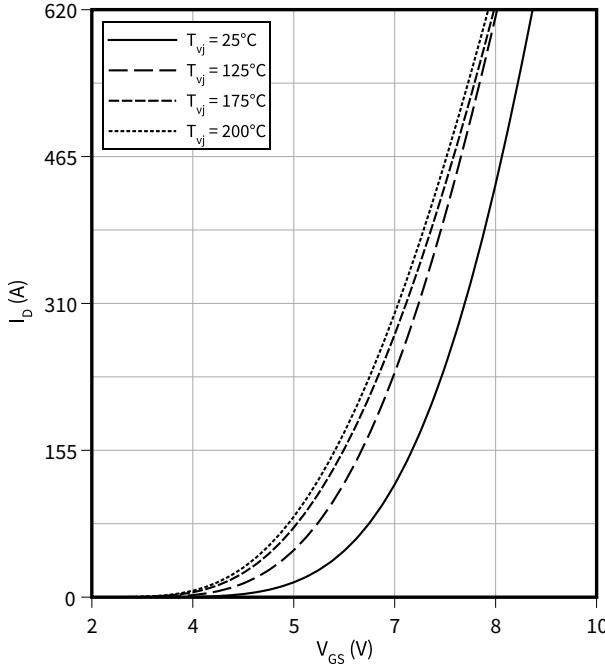
**Drain-source on-resistance (typical), MOSFET**

$R_{DS,ON} = f(I_D)$   
 $V_{GS} = 18 \text{ V}$



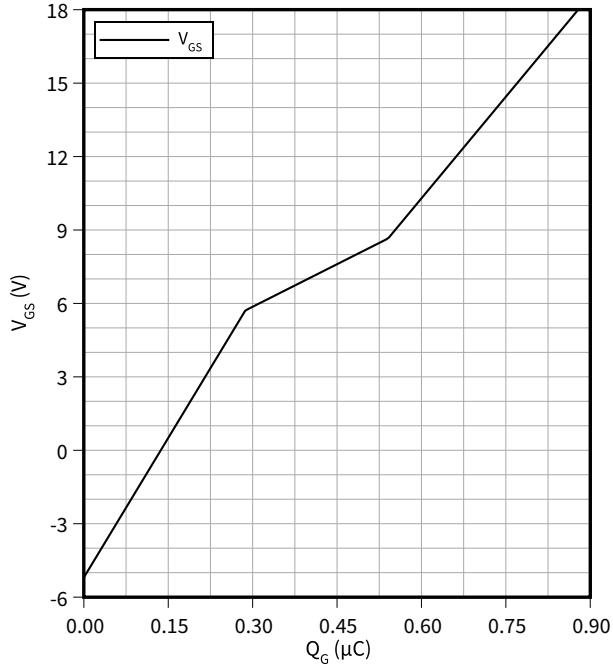
**Transfer characteristic (typical), MOSFET**

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



**Gate charge characteristic (typical), MOSFET**

$V_{GS} = f(Q_G)$   
 $V_{DD} = 750 \text{ V}, T_{vj} = 25^\circ\text{C}$

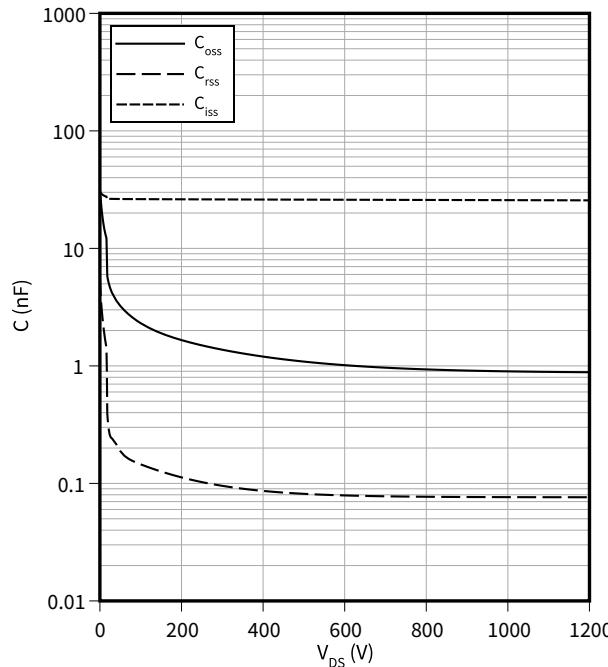


## 5 Characteristics diagrams

**Capacity characteristic (typical), MOSFET**

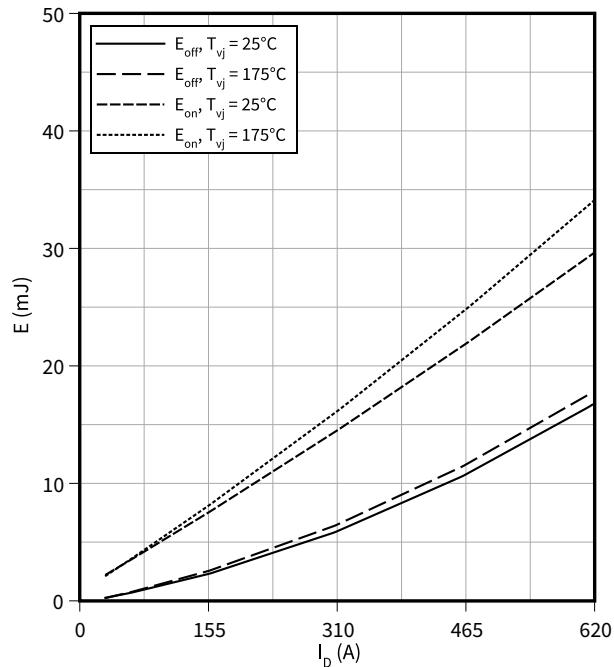
$$C = f(V_{DS})$$

$$f = 1 \text{ MHz}, V_{GS} = -5/18 \text{ V}, T_{vj} = 25^\circ\text{C}$$

**Switching losses (typical), MOSFET**

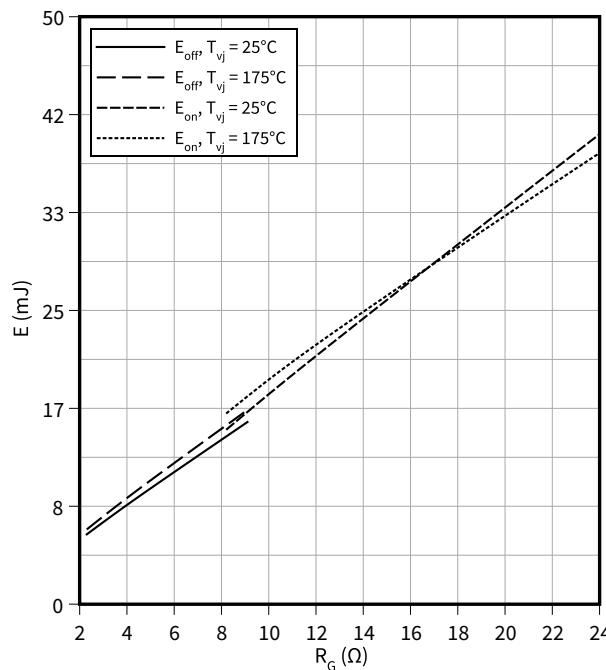
$$E = f(I_D)$$

$$V_{DS} = 750 \text{ V}, R_{G,off} = 2.3 \Omega, R_{G,on} = 8.2 \Omega, V_{GS} = -5/18 \text{ V}$$

**Switching losses (typical), MOSFET**

$$E = f(R_G)$$

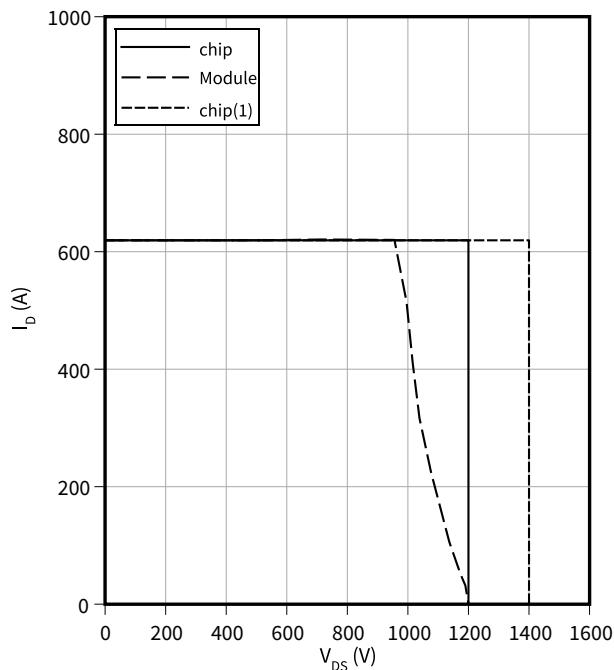
$$V_{DS} = 750 \text{ V}, I_D = 310 \text{ A}, V_{GS} = -5/18 \text{ V}$$

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

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

$$R_{G,off} = 2.3 \Omega, V_{GS} = +18/-5 \text{ V}, T_{vj} = 25^\circ\text{C}$$

(1) for 10h over lifetime

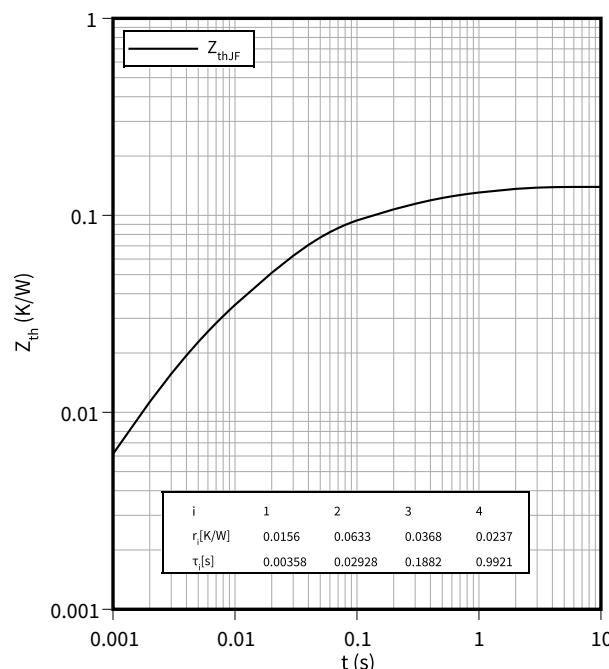


## 5 Characteristics diagrams

**Transient thermal impedance, MOSFET**

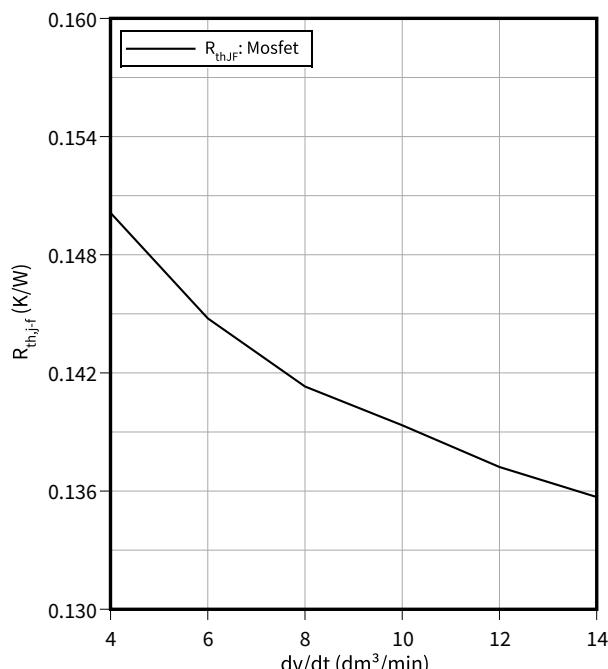
$$Z_{th} = f(t)$$

fluid = 50% water/50% ethylenglycol ,  $T_f = 60^\circ\text{C}$

**Thermal impedance, MOSFET**

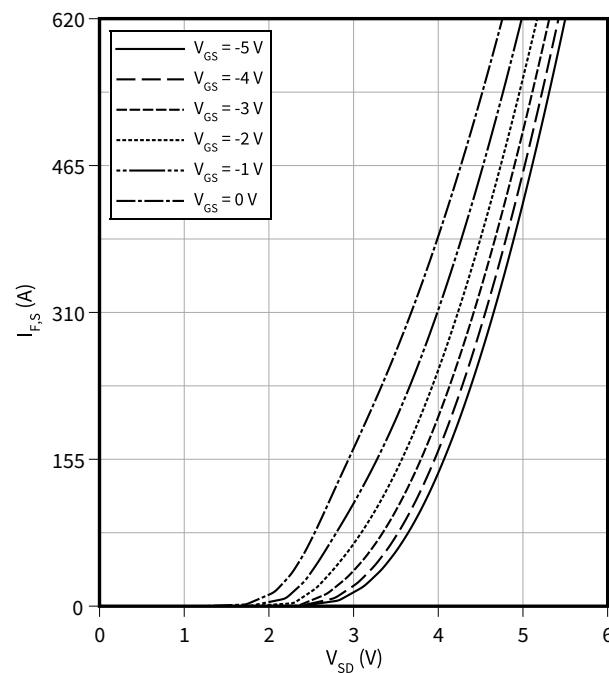
$$R_{th,j-f} = f(dv/dt)$$

fluid = 50% water/50% ethylenglycol ,  $T_f = 60^\circ\text{C}$

**Forward characteristic body diode (typical), MOSFET**

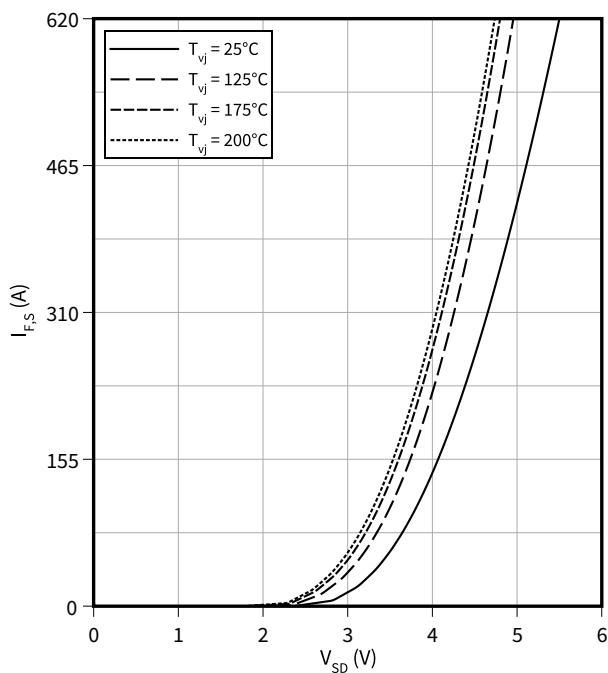
$$I_{F,S} = f(V_{SD})$$

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

**Forward characteristic body diode (typical), MOSFET**

$$I_{F,S} = f(V_{SD})$$

$V_{GS} = -5\text{ V}$

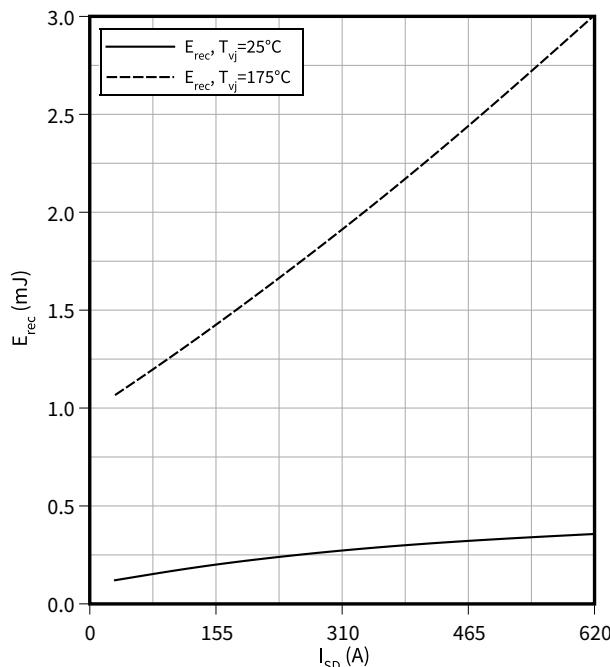


5 Characteristics diagrams

**Switching losses body diode (typical), MOSFET**

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

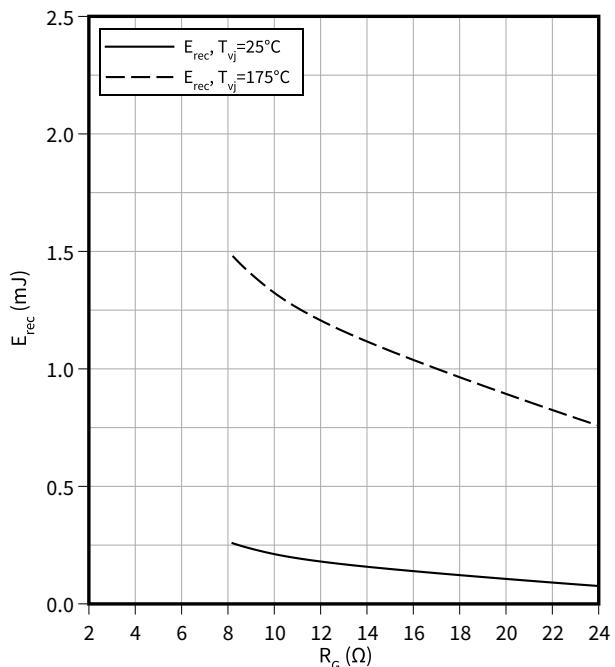
$$V_r = 750 \text{ V}, R_{G, on} = 8.2 \Omega$$



**Switching losses body diode (typical), MOSFET**

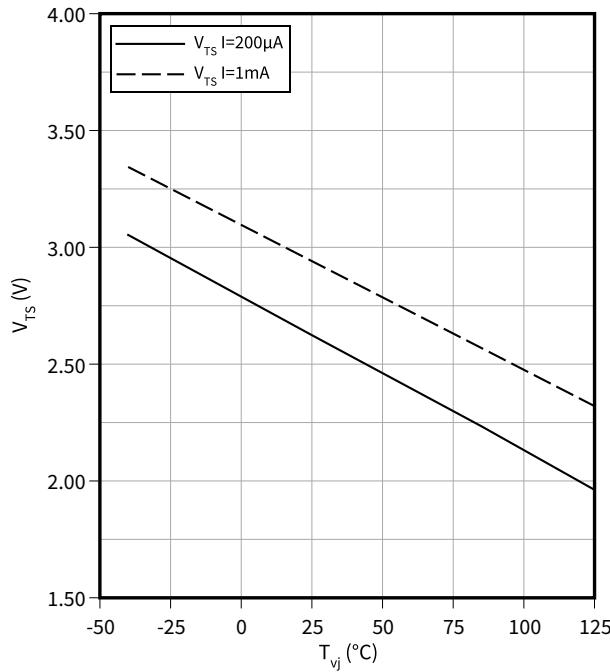
$$E_{rec} = f(R_G)$$

$$V_r = 750 \text{ V}, I_{F,S} = 310 \text{ A}$$

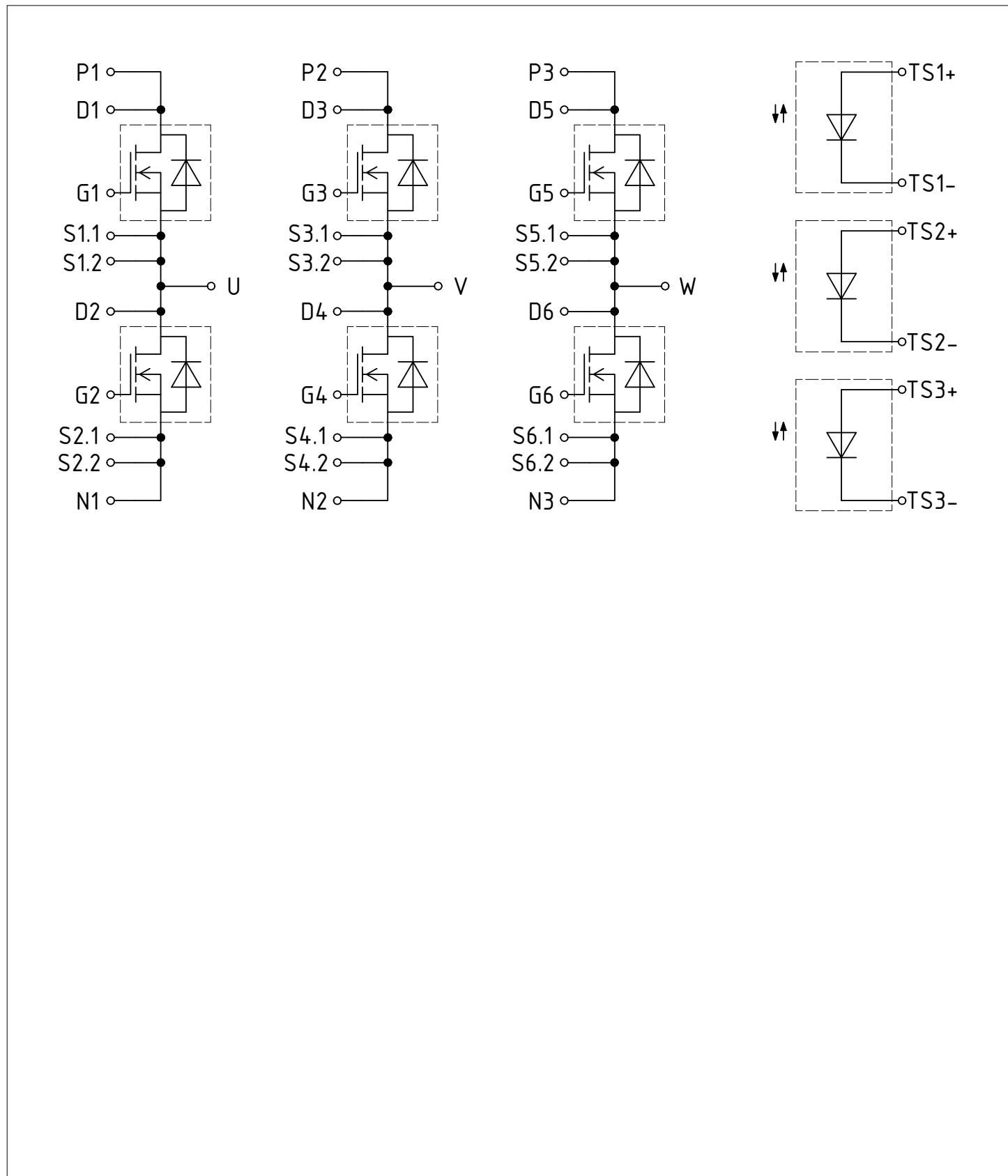


**Temperature characteristic (typical), Temperature sensor**

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

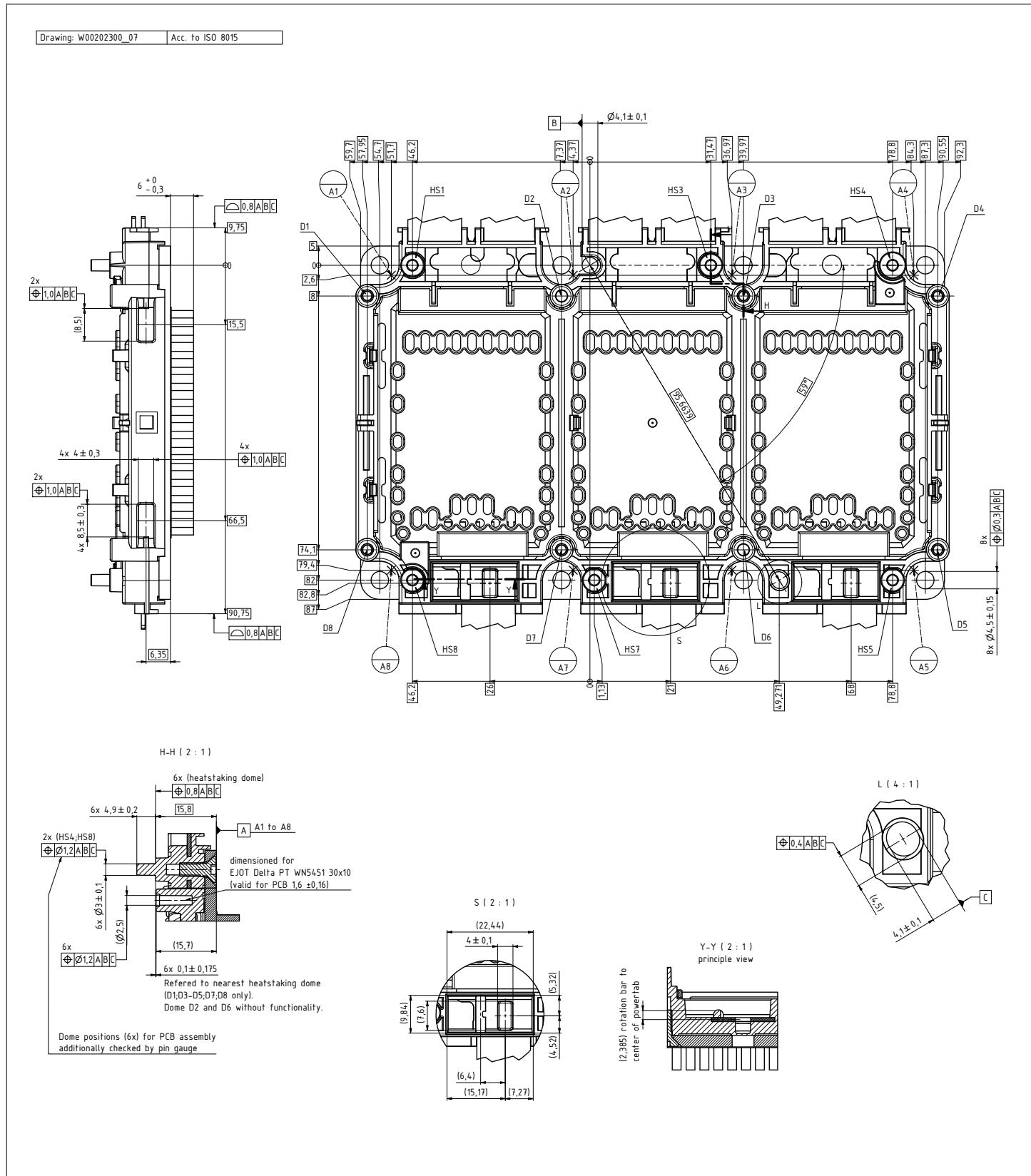


## 6 Circuit diagram



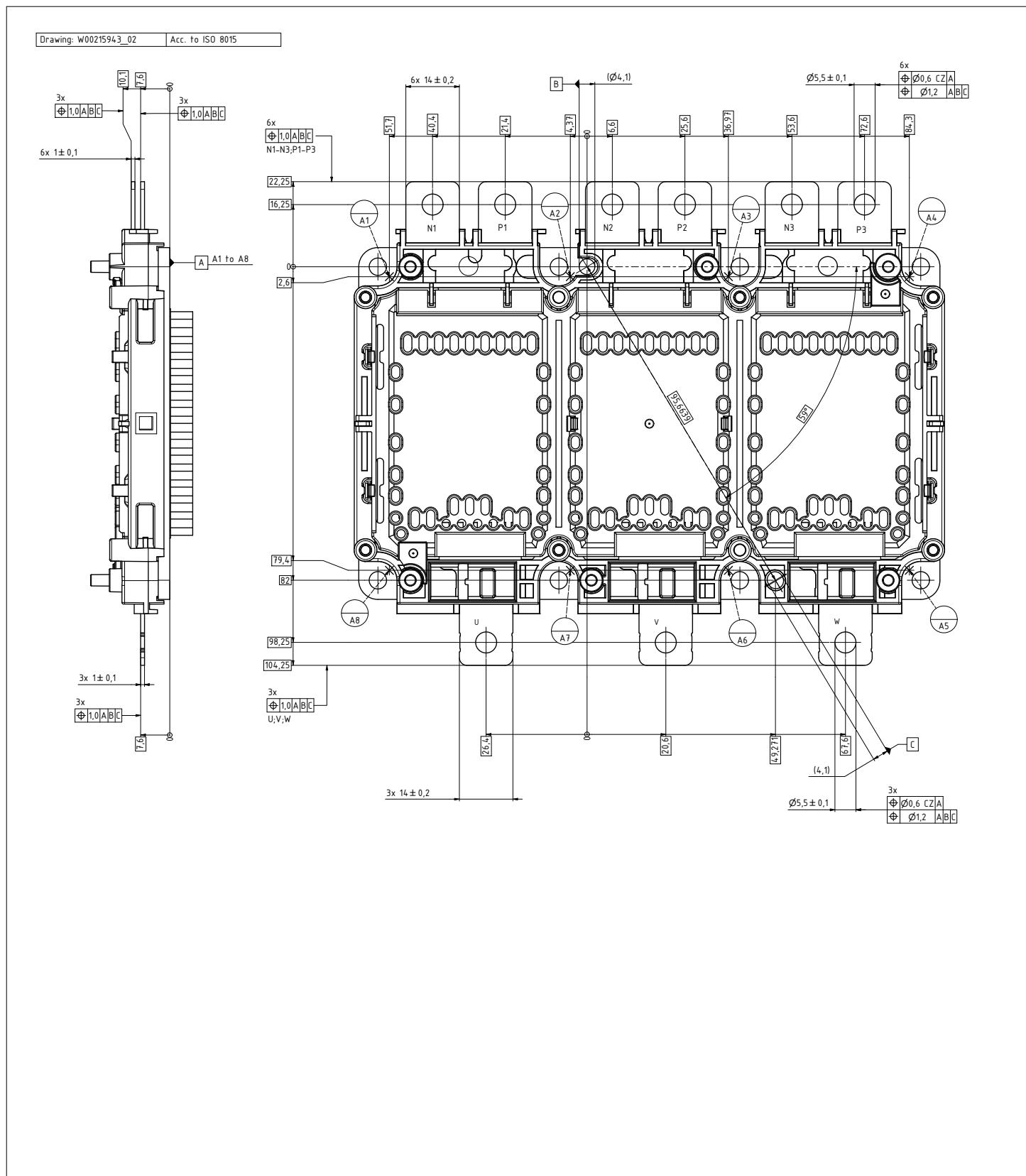
**Figure 1**

## 7 Package outlines



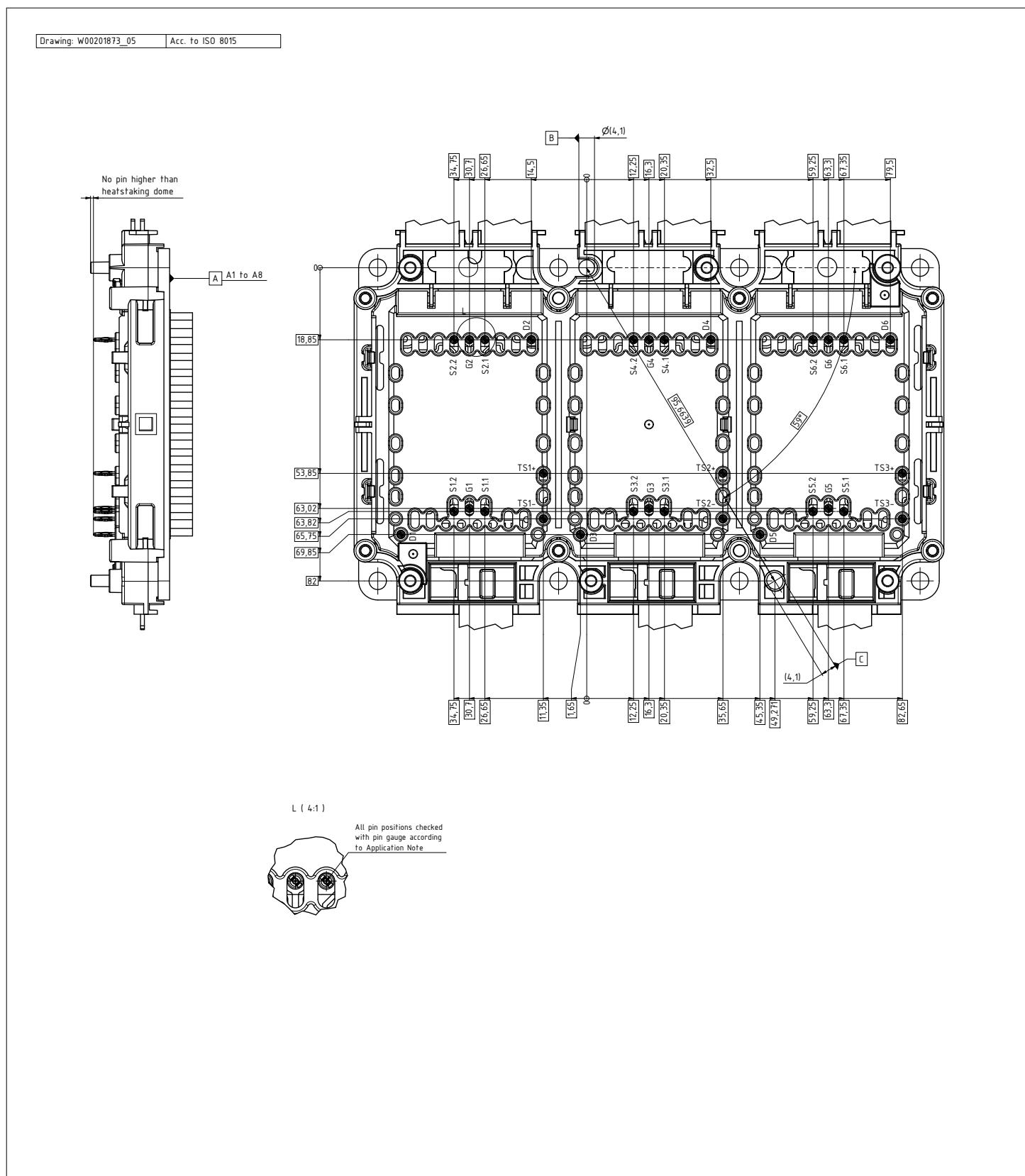
**Figure 2**

**7 Package outlines**



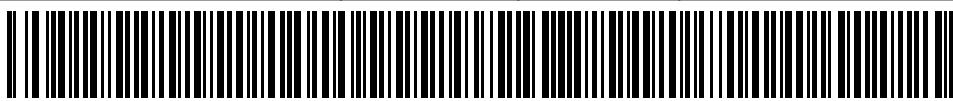
**Figure 3**

**7 Package outlines**



**Figure 4**

## 8 Module label code

<b>Module label code</b>				
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> Module serial number Module material number Production order number Date code (production year) Date code (production week)	<i>Digit</i> 1 – 5 6 - 11 12 - 19 20 – 21 22 – 23	<i>Example</i> 71549 142846 55054991 15 30	
Example	 	71549142846550549911530	71549142846550549911530	
<b>Packing label code</b>				
Code format	Barcode Code128			
Encoding	Code Set A			
Symbol size	34 digits			
Standard	IEC8859-1			
Code content	<i>Content</i> Module serial number Module material number Production order number Date code (production year) Date code (production week)	<i>Identifier</i> X 1T S 9D Q	<i>Digit</i> 2 – 9 12 – 19 21 – 25 28 – 31 33 – 34	<i>Example</i> 95056609 2X0003E0 754389 1139 15
Example		X950566091T2X0003E0S754389D1139Q15		

**Figure 5**

Revision history

## Revision history

<b>Document revision</b>	<b>Date of release</b>	<b>Description of changes</b>
0.10	2023-04-05	Initial version
0.20	2023-12-18	Preliminary datasheet
1.00	2024-07-02	Final datasheet

## **Trademarks**

All referenced product or service names and trademarks are the property of their respective owners.

**Edition 2024-07-02**

**Published by**

**Infineon Technologies AG  
81726 Munich, Germany**

**© 2024 Infineon Technologies AG  
All Rights Reserved.**

**Do you have a question about any aspect of this document?**

**Email: [erratum@infineon.com](mailto:erratum@infineon.com)**

**Document reference  
IFX-ABG119-003**

## **Important notice**

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffenheitsgarantie").

With respect to any examples, hints or any typical values stated herein and/or any information regarding the application of the product, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of Infineon Technologies in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

## **Warnings**

Due to technical requirements products may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by Infineon Technologies in a written document signed by authorized representatives of Infineon Technologies, Infineon Technologies' products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Infineon:](#)

[FS03MR12A7MA2BHPSA1](#)