

Final datasheet

EasyPIM™ module with CoolSiC™ Trench MOSFET and PressFIT / NTC

Features

- Electrical features
 - $V_{DS} = 1200\text{ V}$
 - $I_{DN} = 50\text{ A}$ / $I_{DRM} = 100\text{ A}$
 - Suitable Infineon gate drivers can be found under <https://www.infineon.com/gdfinder>
 - Low switching losses
 - Low inductive design
- Mechanical features
 - PressFIT contact technology
 - High power density
 - Compact design
 - Al_2O_3 substrate with low thermal resistance
 - 2.5 kV AC 1 minute insulation
 - Integrated NTC temperature sensor
 - Rugged mounting due to integrated mounting clamps



Typical appearance

Potential applications

- Auxiliary inverters
- Air conditioning
- Motor drives

Product validation

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

Description

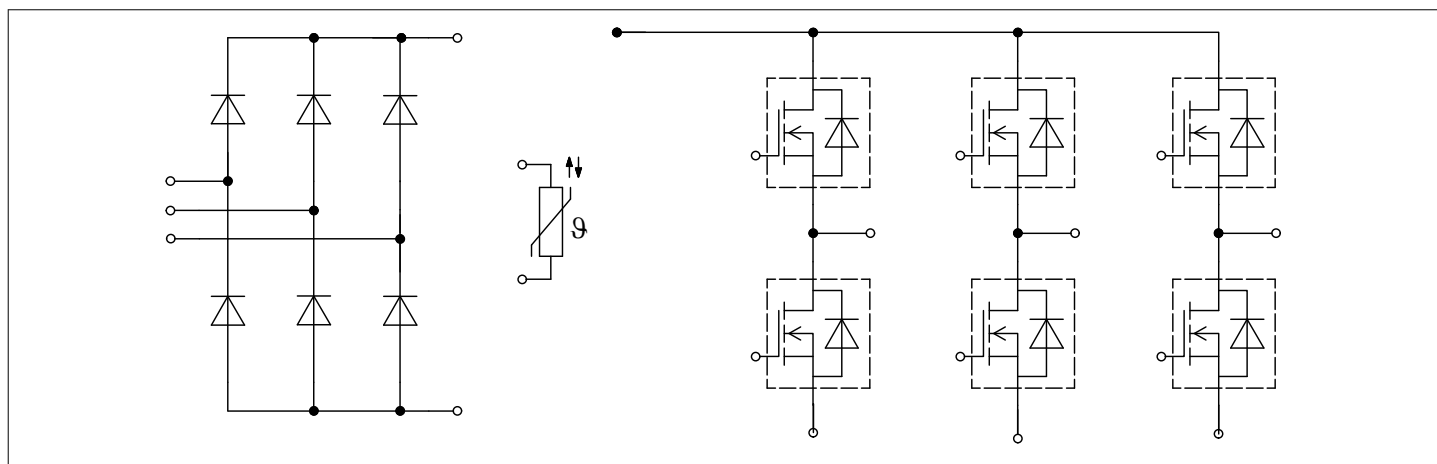


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1 Package

Table 1 Insulation coordination

Parameter	Symbol	Note or test condition	Values	Unit
Isolation test voltage	V_{ISOL}	RMS, $f = 50 \text{ Hz}$, $t = 1 \text{ min}$	2.5	kV
Isolation test voltage NTC	$V_{ISOL(NTC)}$	RMS, $f = 50 \text{ Hz}$, $t = 1 \text{ min}$	2.5	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}			17		nH
Module lead resistance, terminals - chip	$R_{AA'+CC'}$	$T_H = 25 \text{ °C}$, per switch		7		mΩ
Module lead resistance, terminals - chip	$R_{CC'+EE'}$	$T_H = 25 \text{ °C}$, per switch		6		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 25A 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
Implemented drain current	I_{DN}			50	A
Continuous DC drain current	I_{DDC}	$T_{vj} = 175 \text{ °C}$, $V_{GS} = 18 \text{ V}$	$T_H = 65 \text{ °C}$	50	A
Repetitive peak drain current	I_{DRM}	verified by design, t_p limited by T_{vjmax}		100	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	$R_{DS(on)}$	$I_D = 50\text{ A}$	$V_{GS}=18\text{ V}, T_{vj}=25\text{ °C}$		16.2	24	mΩ
			$V_{GS}=18\text{ V}, T_{vj}=125\text{ °C}$		26.1		
			$V_{GS}=18\text{ V}, T_{vj}=175\text{ °C}$		34.7		
			$V_{GS} = 15\text{ V}, T_{vj} = 25\text{ °C}$		19.4		
Gate threshold voltage	$V_{GS(th)}$	$I_D = 20\text{ mA}, V_{DS} = V_{GS}, T_{vj} = 25\text{ °C},$ (tested after 1ms pulse at $V_{GS} = +20\text{ V}$)		3.45	4.3	5.15	V
Total gate charge	Q_G	$V_{DD}=800\text{ V}, V_{GS} = -3/18\text{ V}, T_{vj} = 25\text{ °C}$			0.149		μC
Internal gate resistor	R_{Gint}	$T_{vj}=25\text{ °C}$			4.1		Ω
Input capacitance	C_{ISS}	$f = 100\text{ kHz}, V_{DS}=800\text{ V}, V_{GS}=0\text{ V}$	$T_{vj}=25\text{ °C}$		4.4		nF
Output capacitance	C_{OSS}	$f = 100\text{ kHz}, V_{DS}=800\text{ V}, V_{GS}=0\text{ V}$	$T_{vj}=25\text{ °C}$		0.21		nF
Reverse transfer capacitance	C_{rss}	$f = 100\text{ kHz}, V_{DS}=800\text{ V}, V_{GS}=0\text{ V}$	$T_{vj}=25\text{ °C}$		0.014		nF
C_{OSS} stored energy	E_{OSS}	$V_{DS}=800\text{ V}, V_{GS} = -3/18\text{ V}, T_{vj} = 25\text{ °C}$			86		μJ
Drain-source leakage current	I_{DSS}	$V_{DS} = 1200\text{ V}, V_{GS} = -3\text{ V}$	$T_{vj} = 25\text{ °C}$		0.03	208	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)	$t_{d on}$	$I_D = 50\text{ A}, R_{Gon} = 8.2\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, t_{dead} = 1000\text{ ns}, 0.1 V_{GS}$ to $0.1 I_D$	$T_{vj} = 25\text{ °C}$		77		ns
			$T_{vj} = 125\text{ °C}$		77		
			$T_{vj} = 175\text{ °C}$		78		
Rise time (inductive load)	t_r	$I_D = 50\text{ A}, R_{Gon} = 8.2\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, t_{dead} = 1000\text{ ns}, 0.1 I_D$ to $0.9 I_D$	$T_{vj} = 25\text{ °C}$		27		ns
			$T_{vj} = 125\text{ °C}$		28		
			$T_{vj} = 175\text{ °C}$		31		
Turn-off delay time (inductive load)	$t_{d off}$	$I_D = 50\text{ A}, R_{Goff} = 2.2\text{ Ω}, V_{DD} = 600\text{ V}, V_{GS} = -3/18\text{ V}, 0.9 V_{GS}$ to $0.9 I_D$	$T_{vj} = 25\text{ °C}$		40		ns
			$T_{vj} = 125\text{ °C}$		44		
			$T_{vj} = 175\text{ °C}$		46		

(table continues...)

Table 5 (continued) **Characteristic values**

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Fall time (inductive load)	t_f	$I_D = 50 \text{ A}$, $R_{Goff} = 2.2 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3/18 \text{ V}$, $0.9 I_D$ to $0.1 I_D$	$T_{vj} = 25 \text{ } ^\circ\text{C}$	15		ns
			$T_{vj} = 125 \text{ } ^\circ\text{C}$	16		
			$T_{vj} = 175 \text{ } ^\circ\text{C}$	18		
Turn-on energy loss per pulse	E_{on}	$I_D = 50 \text{ A}$, $V_{DD} = 600 \text{ V}$, $L_\sigma = 15 \text{ nH}$, $V_{GS} = -3/18 \text{ V}$, $R_{Gon} = 8.2 \text{ } \Omega$, $di/dt =$ $1.6 \text{ kA}/\mu\text{s}$ ($T_{vj} = 175 \text{ } ^\circ\text{C}$), $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ } ^\circ\text{C}$	1.5		mJ
			$T_{vj} = 125 \text{ } ^\circ\text{C}$	1.7		
			$T_{vj} = 175 \text{ } ^\circ\text{C}$	2		
Turn-on energy loss per pulse, optimized	$E_{on,o}$	$I_D = 50 \text{ A}$, $V_{DD} = 600 \text{ V}$, $L_\sigma = 15 \text{ nH}$, $V_{GS} = -3/18 \text{ V}$, $R_{Gon,o} = 3 \text{ } \Omega$, $di/dt =$ $3.4 \text{ kA}/\mu\text{s}$ ($T_{vj} = 175 \text{ } ^\circ\text{C}$), $t_{dead} = 100 \text{ ns}$	$T_{vj} = 25 \text{ } ^\circ\text{C}$	1.2		mJ
			$T_{vj} = 125 \text{ } ^\circ\text{C}$	1.3		
			$T_{vj} = 175 \text{ } ^\circ\text{C}$	1.4		
Turn-off energy loss per pulse	E_{off}	$I_D = 50 \text{ A}$, $V_{DD} = 600 \text{ V}$, $L_\sigma = 15 \text{ nH}$, $V_{GS} = -3/18 \text{ V}$, $R_{Goff} = 2.2 \text{ } \Omega$, $dv/dt = 27.3$ $\text{kV}/\mu\text{s}$ ($T_{vj} = 175 \text{ } ^\circ\text{C}$)	$T_{vj} = 25 \text{ } ^\circ\text{C}$	0.19		mJ
			$T_{vj} = 125 \text{ } ^\circ\text{C}$	0.24		
			$T_{vj} = 175 \text{ } ^\circ\text{C}$	0.3		
SC data	I_{SC}	$V_{GS} = -5/15 \text{ V}$, $V_{DD} = 800 \text{ V}$, $V_{DSmax} = V_{DSS} - L_{SDS} \cdot di/dt$, $R_G = 24 \text{ } \Omega$	$t_P = 2 \text{ } \mu\text{s}$, $T_{vj} = 25 \text{ } ^\circ\text{C}$	600		A
			$t_P = 2 \text{ } \mu\text{s}$, $T_{vj} = 150 \text{ } ^\circ\text{C}$	510		
Thermal resistance, junction to heat sink	R_{thJH}	per MOSFET, $\lambda_{grease} = 5 \text{ W}/(\text{m} \cdot \text{K})$		0.842		K/W
Temperature under switching conditions	$T_{vj,op}$		-40		175	$^\circ\text{C}$

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 Note AN 2018-09 and AN 2021-13 must be considered to ensure sound operation of the device over the planned lifetime.

$T_{vj,op} > 150 \text{ } ^\circ\text{C}$ 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}	$T_{vj} = 175 \text{ } ^\circ\text{C}$, $V_{GS} = -3 \text{ V}$ $T_H = 65 \text{ } ^\circ\text{C}$	30	A

Table 7 Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	V_{SD}	$I_{SD} = 50 \text{ A}$, $V_{GS} = -3 \text{ V}$	$T_{vj} = 25 \text{ °C}$	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}	$I_{SD} = 50 \text{ A}$, $di_s/dt = 1.6 \text{ kA}/\mu\text{s}$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3 \text{ V}$, $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ °C}$	15		A
			$T_{vj} = 125 \text{ °C}$	21		
			$T_{vj} = 175 \text{ °C}$	27		
Recovered charge	Q_{rr}	$I_{SD} = 50 \text{ A}$, $di_s/dt = 1.6 \text{ kA}/\mu\text{s}$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3 \text{ V}$, $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ °C}$	0.4		μC
			$T_{vj} = 125 \text{ °C}$	0.8		
			$T_{vj} = 175 \text{ °C}$	1.1		
Reverse recovery energy	E_{rec}	$I_{SD} = 50 \text{ A}$, $di_s/dt = 1.6 \text{ kA}/\mu\text{s}$ ($T_{vj} = 175 \text{ °C}$), $V_{DD} = 600 \text{ V}$, $V_{GS} = -3 \text{ V}$, $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ °C}$	0.1		mJ
			$T_{vj} = 125 \text{ °C}$	0.18		
			$T_{vj} = 175 \text{ °C}$	0.24		
Reverse recovery energy, optimized	$E_{rec,o}$	$I_{SD} = 50 \text{ A}$, $di_s/dt = 3.4 \text{ kA}/\mu\text{s}$ ($T_{vj} = 175 \text{ °C}$), $V_{DD} = 600 \text{ V}$, $V_{GS} = -3 \text{ V}$, $t_{dead} = 100 \text{ ns}$	$T_{vj} = 25 \text{ °C}$	0.1		mJ
			$T_{vj} = 125 \text{ °C}$	0.13		
			$T_{vj} = 175 \text{ °C}$	0.16		

4 Diode, Rectifier

Table 8 Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Repetitive peak reverse voltage	V_{RRM}		$T_{vj} = 25 \text{ °C}$	1600	V
Maximum RMS forward current per chip	I_{FRMSM}	$T_H = 100 \text{ °C}$		50	A
Maximum RMS current at rectifier output	I_{RMSM}	$T_H = 100 \text{ °C}$		50	A
Surge forward current	I_{FSM}	$t_p = 10 \text{ ms}$	$T_{vj} = 25 \text{ °C}$	372	A
			$T_{vj} = 150 \text{ °C}$	298	
I^2t - value	I^2t	$t_p = 10 \text{ ms}$, $V_R = 0 \text{ V}$	$T_{vj} = 25 \text{ °C}$	693	A^2s
			$T_{vj} = 150 \text{ °C}$	445	

Table 9 Characteristic values

Parameter	Symbol	Note or test condition		Values			Unit
				Min.	Typ.	Max.	
Forward voltage	V_F	$I_F = 35 \text{ A}$	$T_{vj} = 150 \text{ °C}$		0.95		V
Reverse current	I_r	$T_{vj} = 150 \text{ °C}, V_R = 1600 \text{ V}$			1		mA
Thermal resistance, junction to heat sink	R_{thJH}	per diode, $\lambda_{grease} = 5 \text{ W/(m·K)}$			1.07		K/W
Temperature under switching conditions	$T_{vj, op}$			-40		150	°C

5 NTC-Thermistor

Table 10 Characteristic values

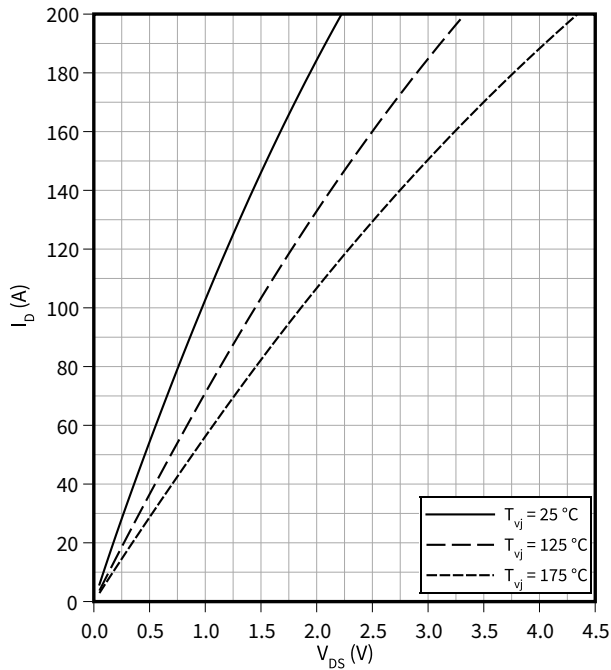
Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Rated resistance	R_{25}	$T_{NTC} = 25 \text{ °C}$		5		kΩ
Deviation of R_{100}	$\Delta R/R$	$T_{NTC} = 100 \text{ °C}, R_{100} = 493 \text{ Ω}$	-5		5	%
Power dissipation	P_{25}	$T_{NTC} = 25 \text{ °C}$			20	mW
B-value	$B_{25/50}$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

6 Characteristics diagrams

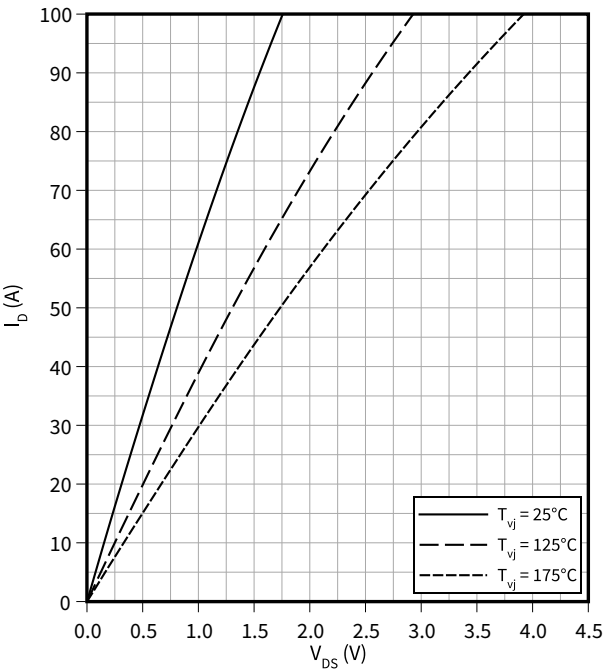
Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$
 $V_{GS} = 15\text{ V}$



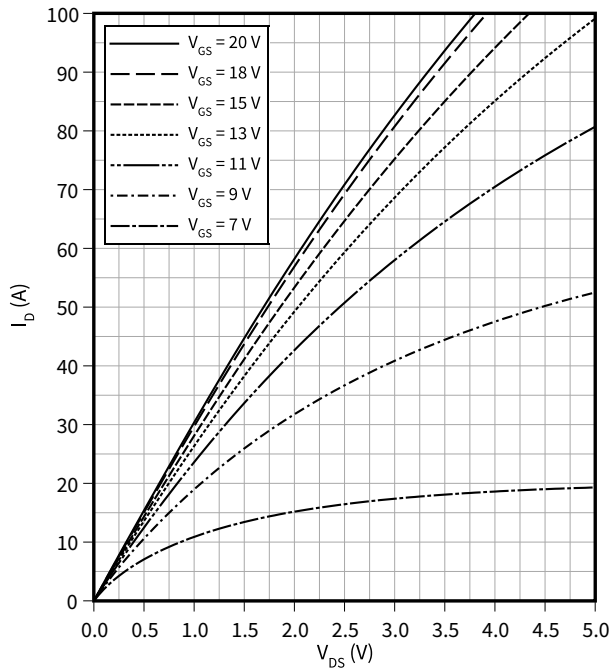
Output characteristic (typical), MOSFET

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



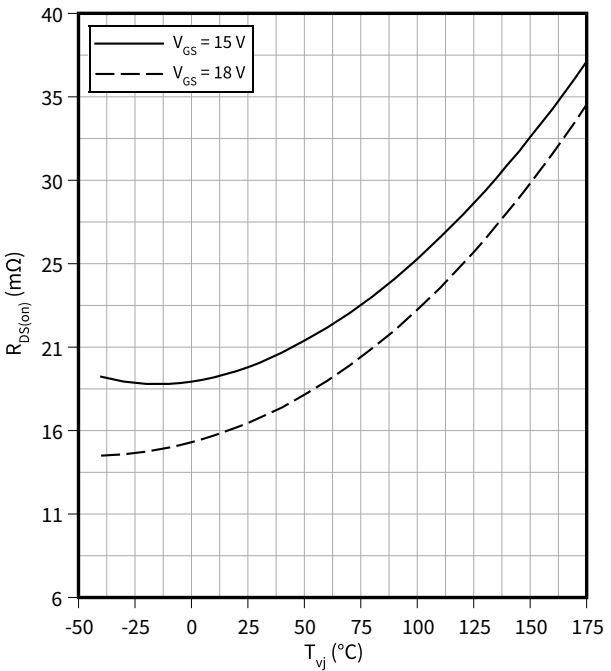
Output characteristic field (typical), MOSFET

$I_D = f(V_{DS})$
 $T_{vj} = 175\text{ °C}$



Drain source on-resistance (typical), MOSFET

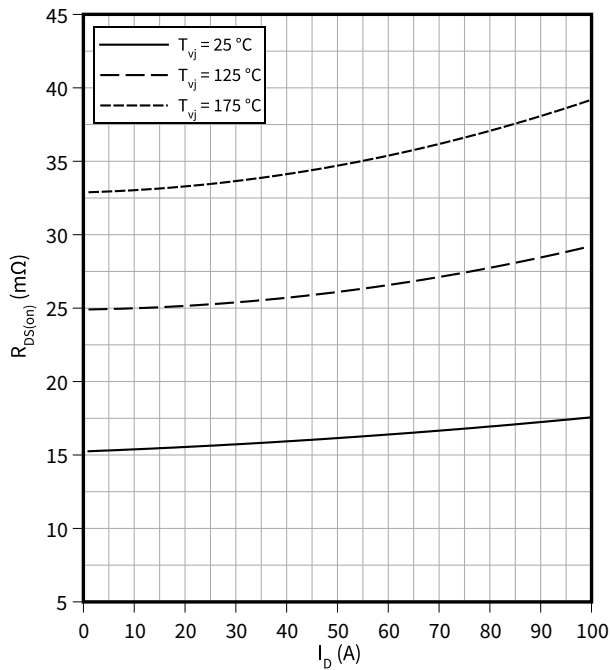
$R_{DS(on)} = f(T_{vj})$
 $I_D = 50\text{ A}$



6 Characteristics diagrams

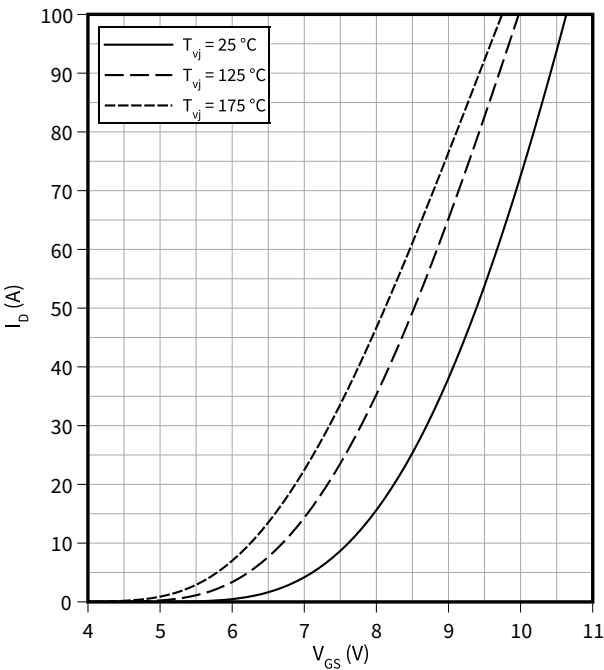
Drain source on-resistance (typical), MOSFET

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



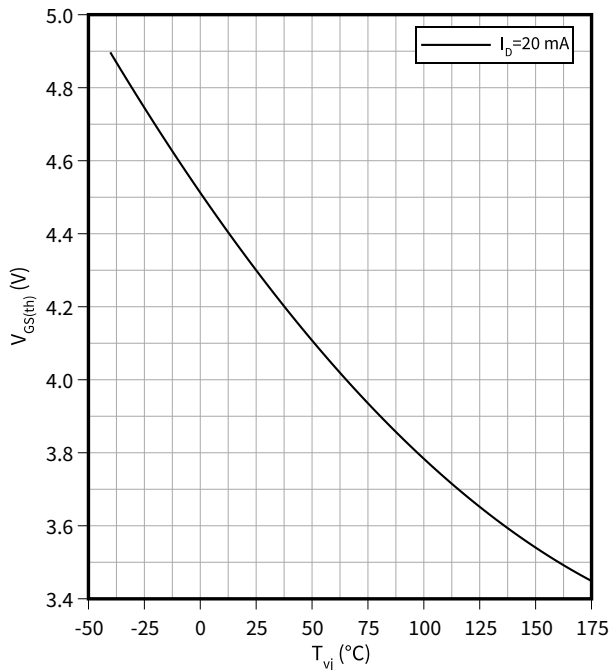
Transfer characteristic (typical), MOSFET

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



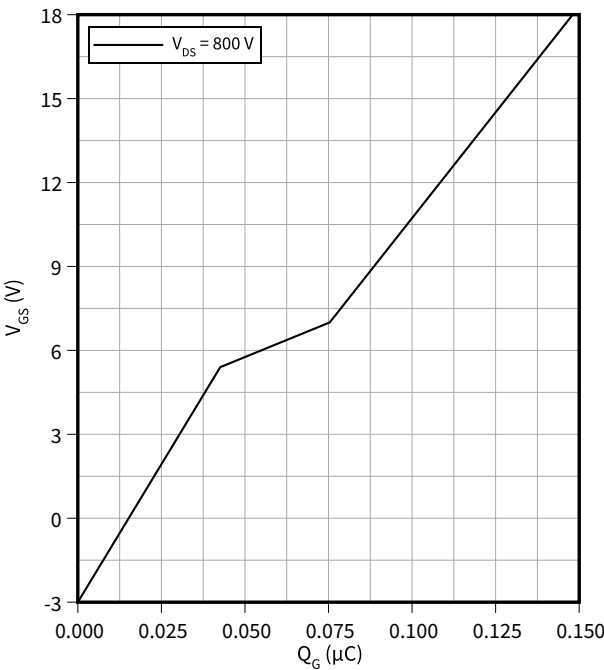
Gate-source threshold voltage (typical), MOSFET

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



Gate charge characteristic (typical), MOSFET

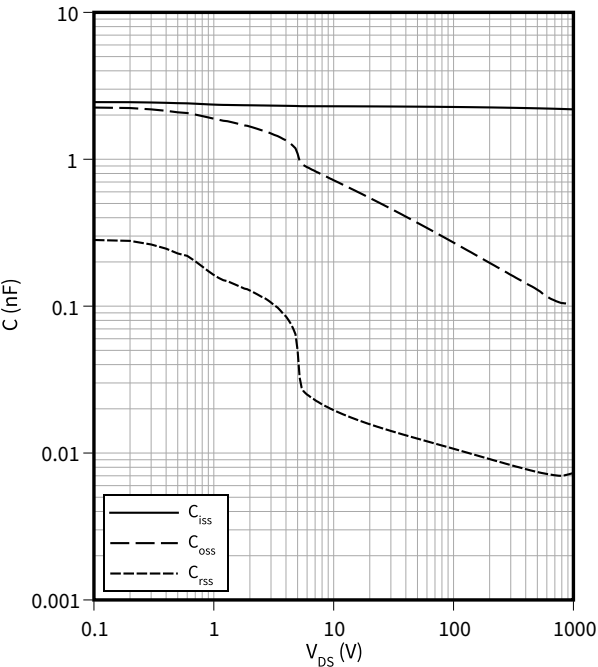
$V_{GS} = f(Q_G)$
 $T_{vj} = 25\text{ °C}, I_D = 50\text{ A}$



6 Characteristics diagrams

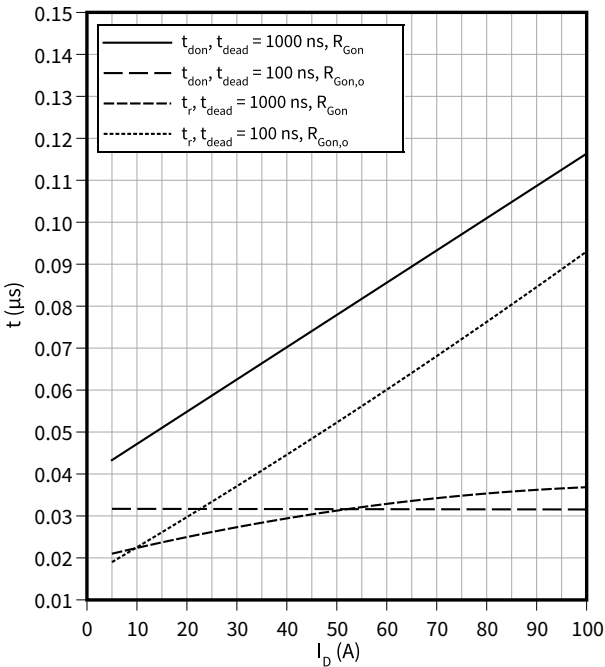
Capacity characteristic (typical), MOSFET

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



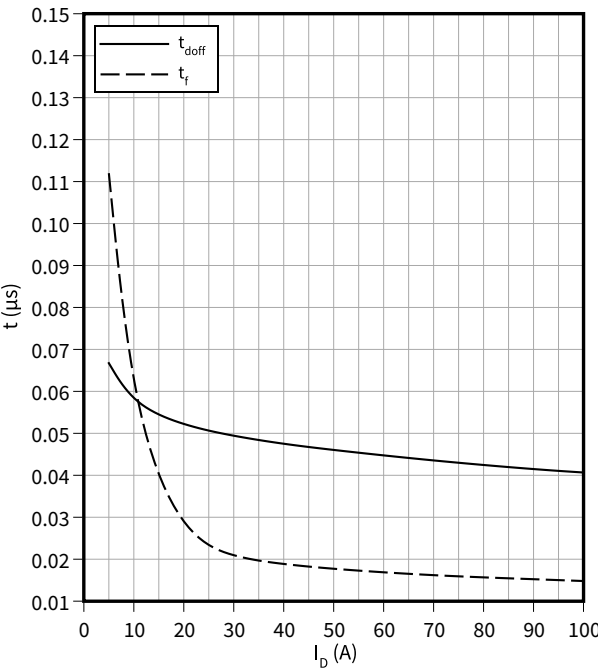
Switching times (typical), MOSFET

$t = f(I_D)$
 $V_{DD} = 600 \text{ V}$, $R_{Gon} = 8.2 \text{ }\Omega$, $R_{Gon,o} = 3 \text{ }\Omega$, $T_{vj} = 175 \text{ °C}$, $V_{GS} = -3/18 \text{ V}$



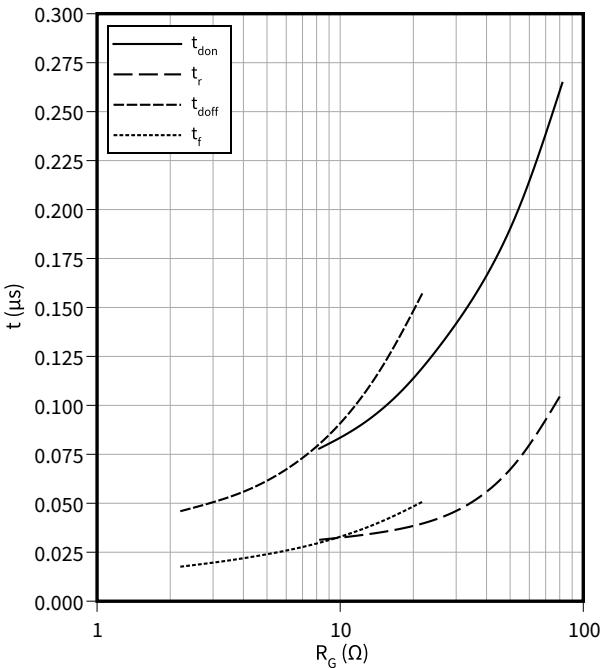
Switching times (typical), MOSFET

$t = f(I_D)$
 $R_{Goff} = 2.2 \text{ }\Omega$, $V_{DD} = 600 \text{ V}$, $T_{vj} = 175 \text{ °C}$, $V_{GS} = -3/18 \text{ V}$



Switching times (typical), MOSFET

$t = f(R_G)$
 $V_{DD} = 600 \text{ V}$, $t_{dead} = 1000 \text{ ns}$, $I_D = 50 \text{ A}$, $T_{vj} = 175 \text{ °C}$, $V_{GS} = -3/18 \text{ V}$

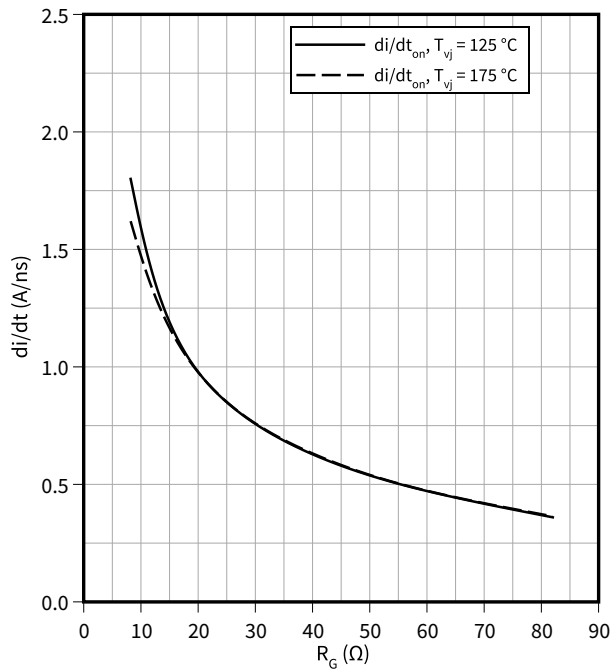


6 Characteristics diagrams

Current slope (typical), MOSFET

$di/dt = f(R_G)$

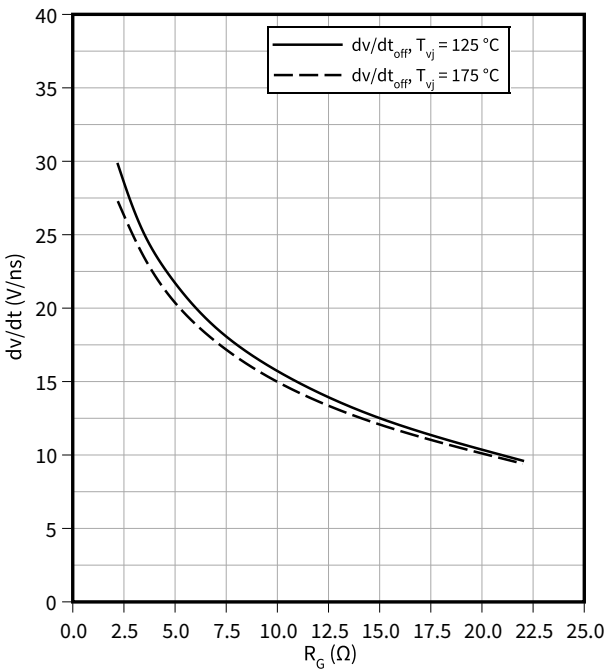
$V_{DD} = 600\text{ V}$, $t_{dead} = 1000\text{ ns}$, $I_D = 50\text{ A}$, $V_{GS} = -3/18\text{ V}$



Voltage slope (typical), MOSFET

$dv/dt = f(R_G)$

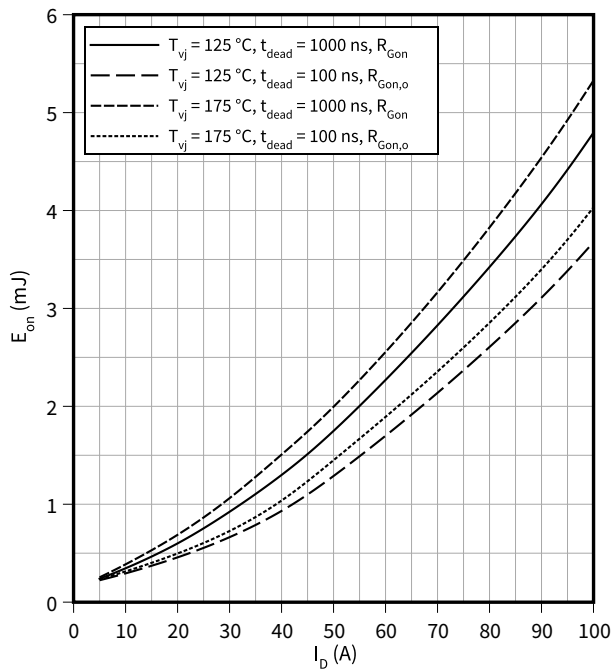
$V_{DD} = 600\text{ V}$, $I_D = 50\text{ A}$, $V_{GS} = -3/18\text{ V}$



Switching losses (typical), MOSFET

$E_{on} = f(I_D)$

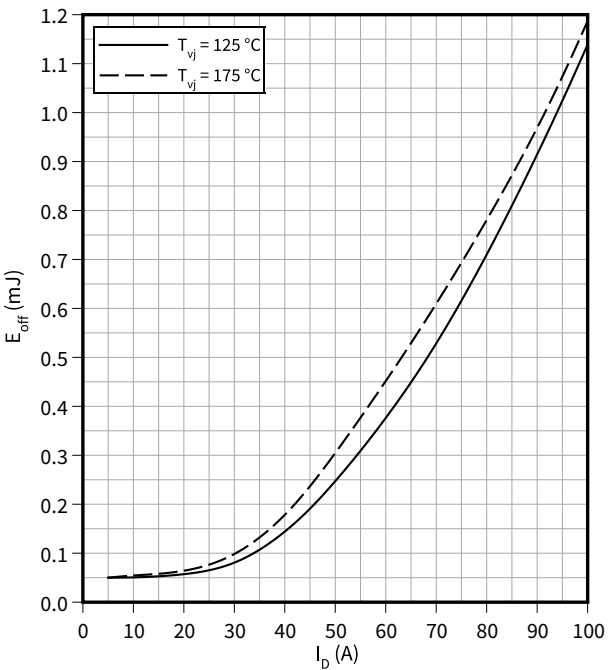
$V_{DD} = 600\text{ V}$, $R_{Gon} = 8.2\text{ Ω}$, $R_{Gon,o} = 3\text{ Ω}$, $V_{GS} = -3/18\text{ V}$



Switching losses (typical), MOSFET

$E_{off} = f(I_D)$

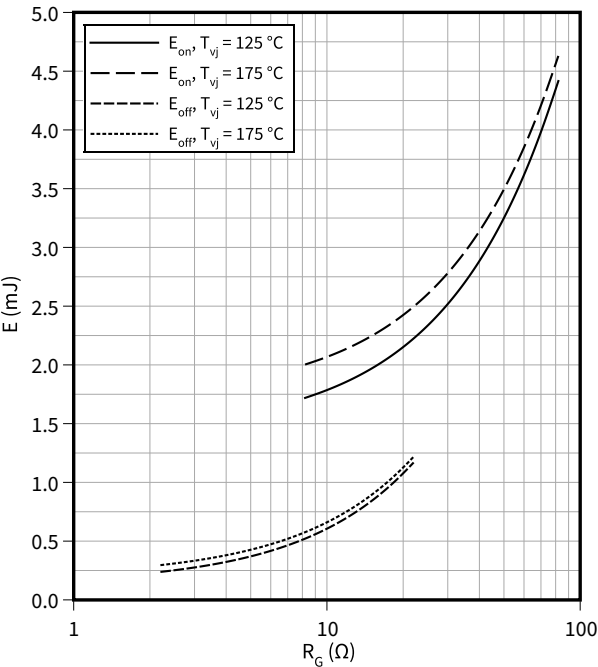
$R_{Goff} = 2.2\text{ Ω}$, $V_{DD} = 600\text{ V}$, $V_{GS} = -3/18\text{ V}$



6 Characteristics diagrams

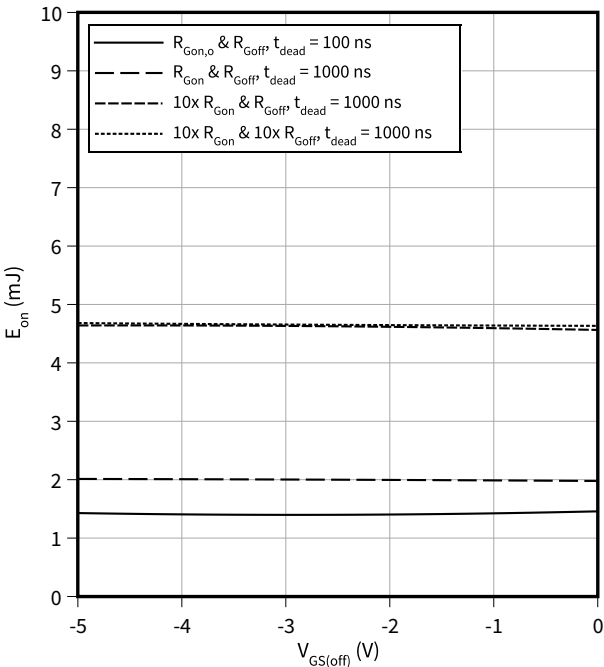
Switching losses (typical), MOSFET

$E = f(R_G)$
 $V_{DD} = 600\text{ V}$, $t_{dead} = 1000\text{ ns}$, $I_D = 50\text{ A}$, $V_{GS} = -3/18\text{ V}$



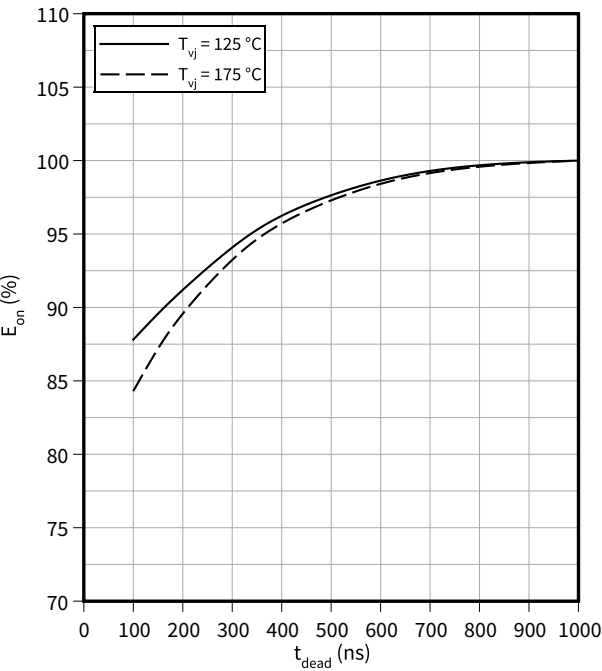
Switching losses (typical), MOSFET

$E_{on} = f(V_{GS(off)})$
 $R_{Goff} = 2.2\text{ }\Omega$, $V_{DD} = 600\text{ V}$, $R_{Gon} = 8.2\text{ }\Omega$, $V_{GS(on)} = 18\text{ V}$, $I_D = 50\text{ A}$, $R_{Gon,o} = 3\text{ }\Omega$, $T_{vj} = 175\text{ }^\circ\text{C}$



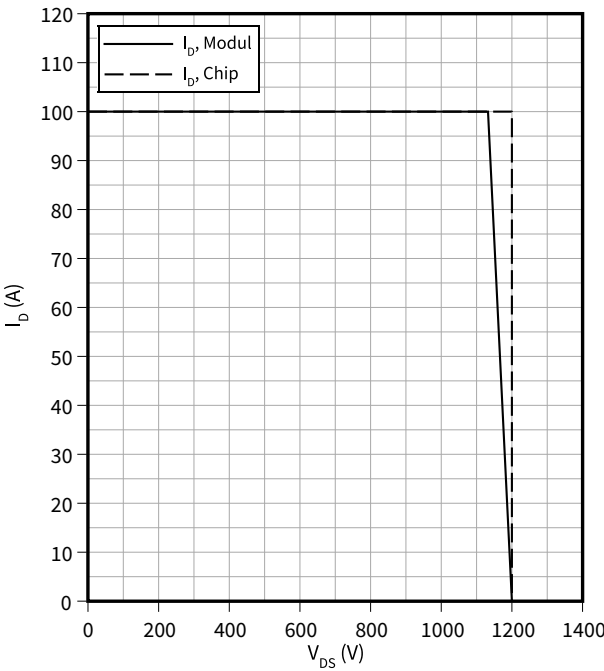
Switching losses (typical), MOSFET

$E_{on} = f(t_{dead})$
 $R_{Gon} = 8.2\text{ }\Omega$, $I_D = 50\text{ A}$, $V_{DD} = 600\text{ V}$, $V_{GS} = -3/18\text{ V}$



Reverse bias safe operating area (RBSOA), MOSFET

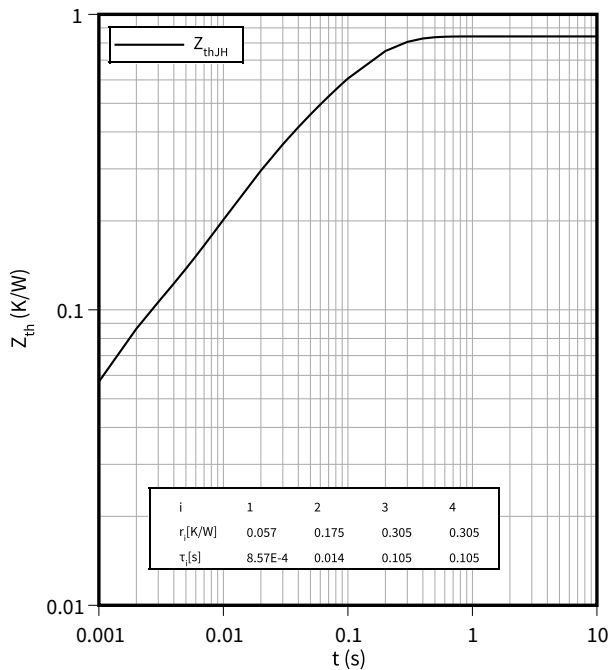
$I_D = f(V_{DS})$
 $R_{Goff} = 2.2\text{ }\Omega$, $T_{vj} = 175\text{ }^\circ\text{C}$, $V_{GS} = -3/18\text{ V}$



6 Characteristics diagrams

Transient thermal impedance, MOSFET

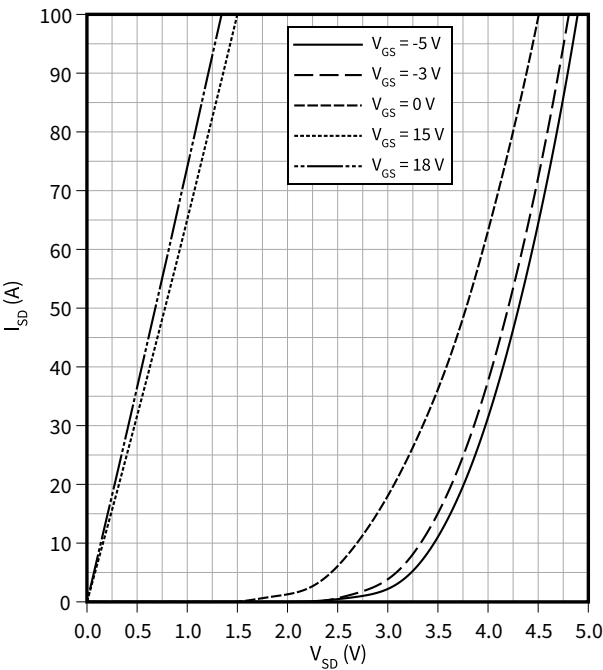
$Z_{th} = f(t)$



Forward characteristic body diode (typical), MOSFET

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

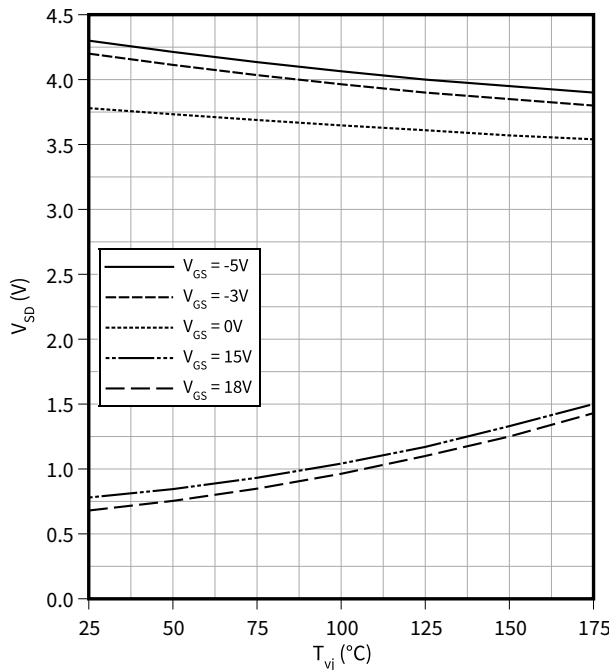
$T_{vj} = 25\text{ }^{\circ}\text{C}$



Forward voltage of body diode (typical), MOSFET

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

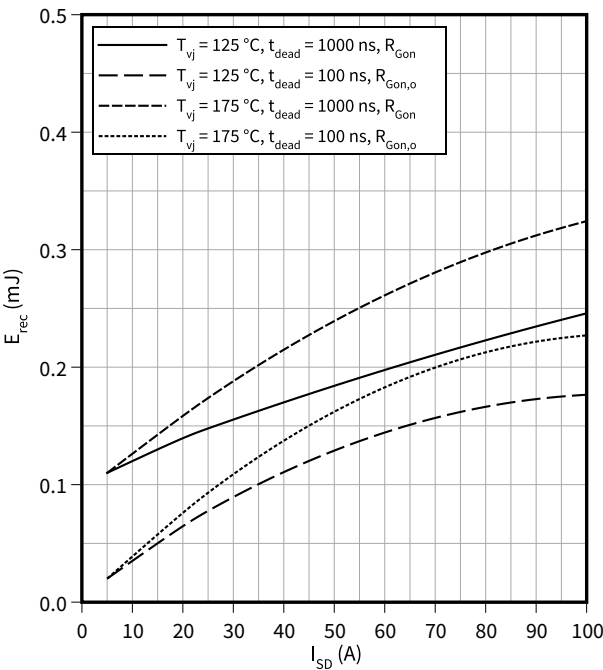
$I_{SD} = 50\text{ A}$



Switching losses body diode (typical), MOSFET

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

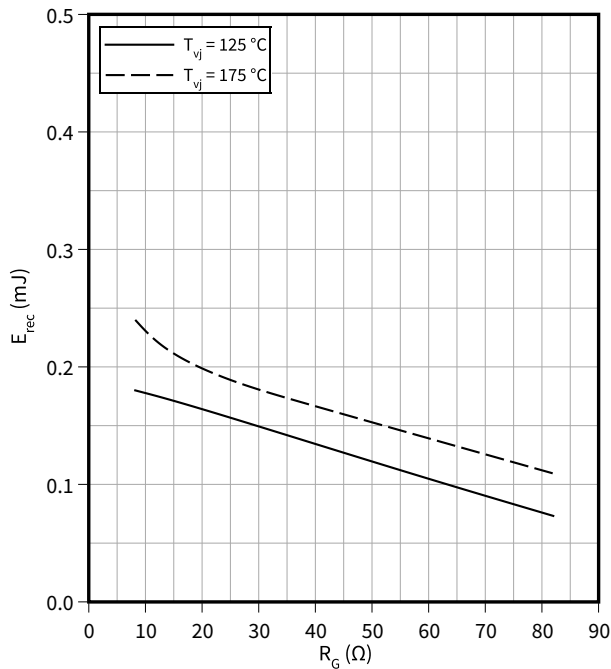
$R_{Gon} = 8.2\text{ }\Omega$, $R_{Gon,o} = 3\text{ }\Omega$, $V_{DD} = 600\text{ V}$



6 Characteristics diagrams

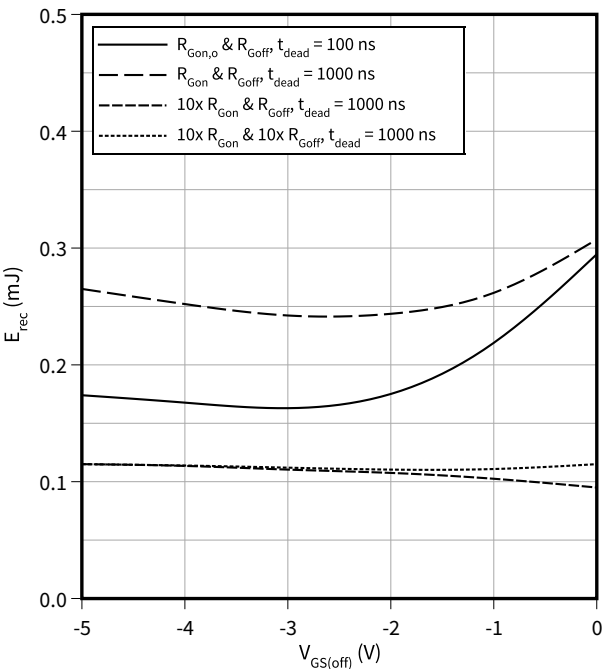
Switching losses body diode (typical), MOSFET

$E_{rec} = f(R_G)$
 $t_{dead} = 1000\text{ ns}$, $I_{SD} = 50\text{ A}$, $V_{DD} = 600\text{ V}$



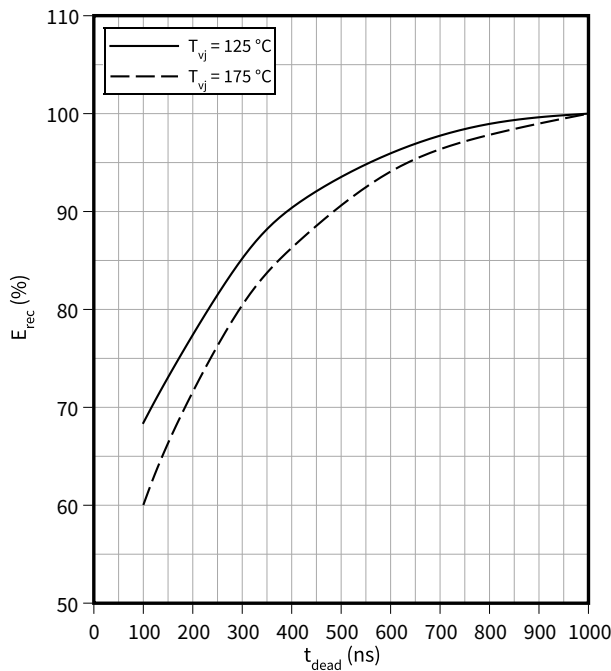
Switching losses body diode (typical), MOSFET

$E_{rec} = f(V_{GS(off)})$
 $R_{Goff} = 2.2\text{ }\Omega$, $R_{Gon} = 8.2\text{ }\Omega$, $V_{GS(on)} = 18\text{ V}$, $I_{SD} = 50\text{ A}$, $R_{Gon,o} = 3\text{ }\Omega$, $V_{DD} = 600\text{ V}$, $T_{vj} = 175\text{ }^\circ\text{C}$



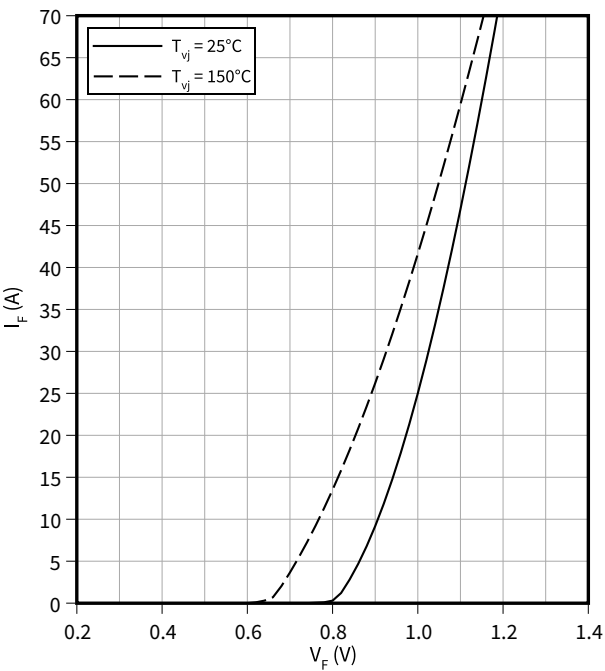
Switching losses body diode (typical), MOSFET

$E_{rec} = f(t_{dead})$
 $R_{Gon} = 8.2\text{ }\Omega$, $I_D = 50\text{ A}$, $V_{DD} = 600\text{ V}$, $V_{GS} = -3/18\text{ V}$



Forward characteristic (typical), Diode, Rectifier

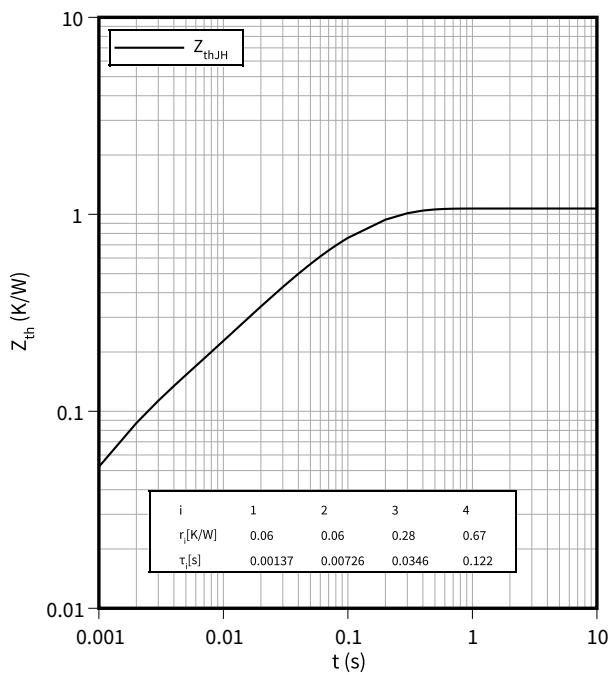
$I_F = f(V_F)$



6 Characteristics diagrams

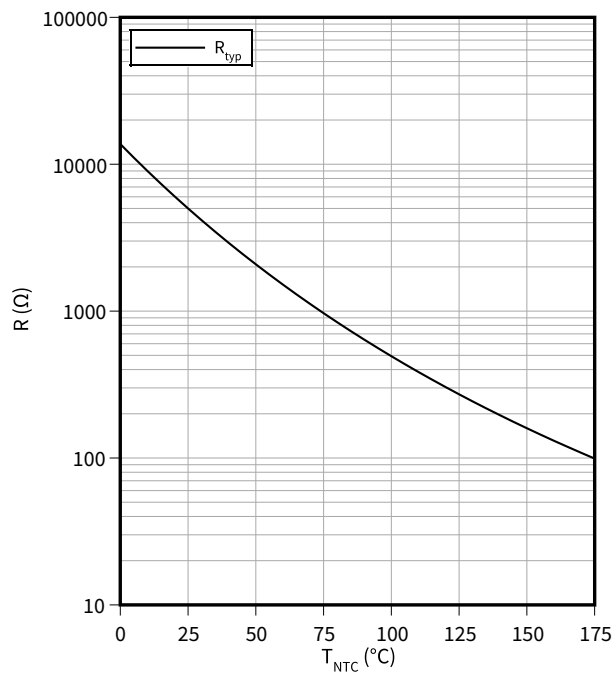
Transient thermal impedance, Diode, Rectifier

$Z_{th} = f(t)$



Temperature characteristic (typical), NTC-Thermistor

$R = f(T_{NTC})$



7 Circuit diagram

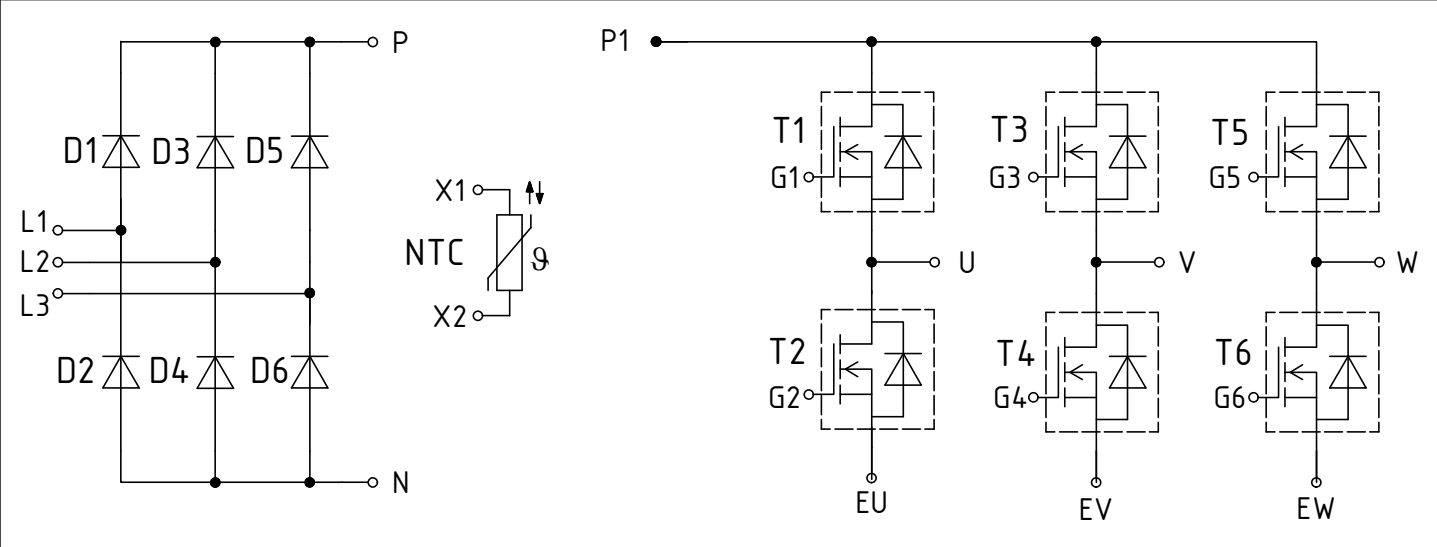


Figure 1

8 Package outlines

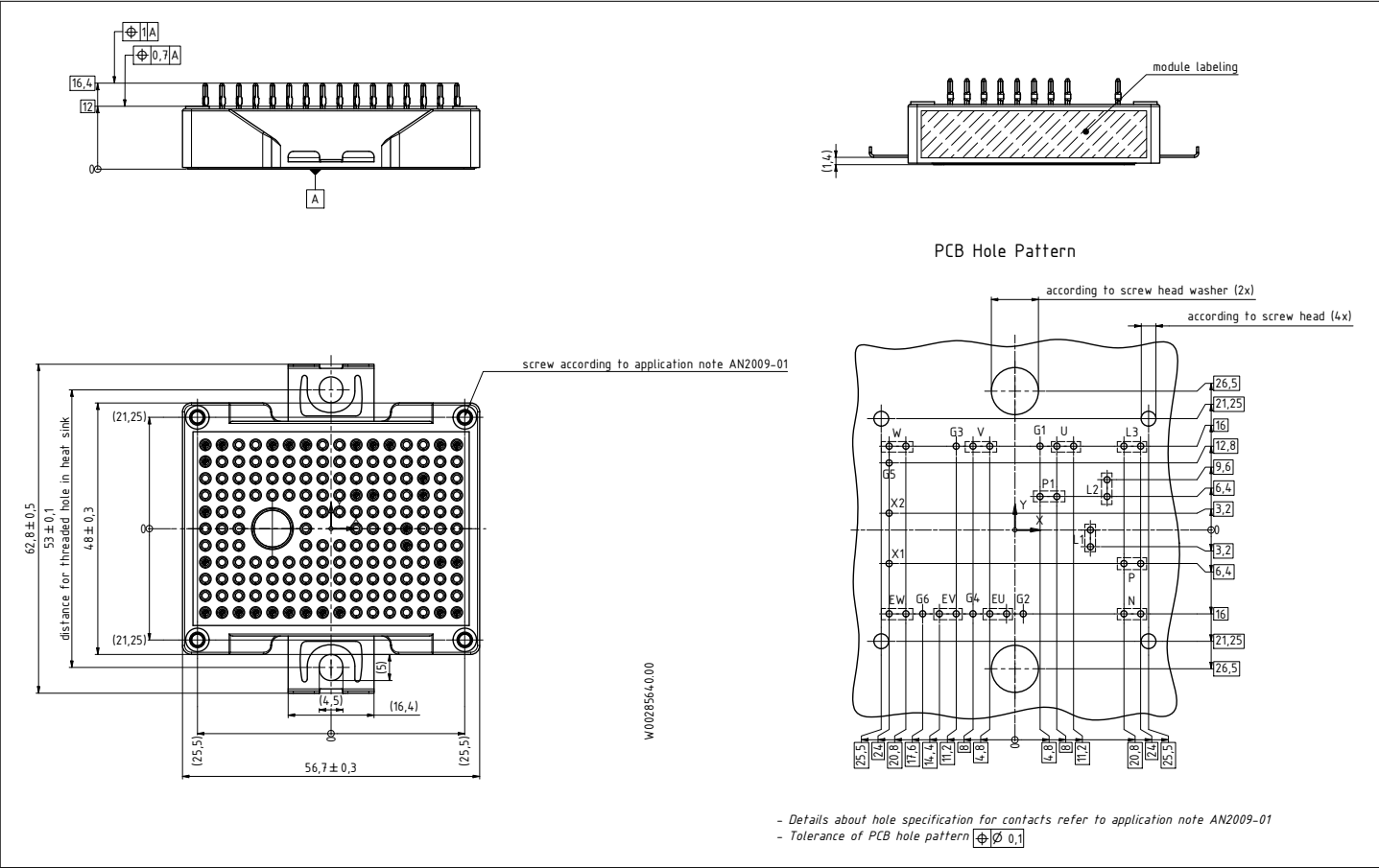


Figure 2

9 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	2025-05-16	Target datasheet
1.00	2025-08-12	Final datasheet

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