

Final datasheet

62 mm C-Series module with CoolSiC™ Trench MOSFET

Features

- Electrical features
 - $V_{DS} = 1200\text{ V}$
 - $I_{DN} = 280\text{ A} / I_{DRM} = 560\text{ A}$
 - High current density
 - Low switching losses
 - Suitable Infineon gate drivers can be found under <https://www.infineon.com/gdfinder>
- Mechanical features
 - 2.5 kV AC 1 minute insulation



Potential applications

- UPS systems
- Solar applications
- DC/DC converter
- High-frequency switching application
- Energy storage systems
- DC charger for EV

Product validation

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

Description

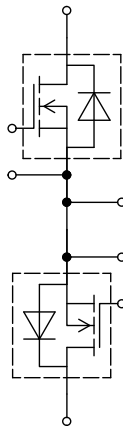


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1 Package

Table 1 Insulation coordination

Parameter	Symbol	Note or test condition	Values	Unit
Isolation test voltage	V_{ISOL}	RMS, $f = 50 \text{ Hz}$, $t = 60 \text{ s}$	2.5	kV
Material of module baseplate			Cu	
Internal isolation		basic insulation (class 1, IEC 61140)	Al_2O_3	
Creepage distance	$d_{Creep \text{ nom}}$	terminal to baseplate, nom.	29.0	mm
Creepage distance	$d_{Creep \text{ nom}}$	terminal to terminal, nom.	23.0	mm
Clearance	$d_{Clear \text{ nom}}$	terminal to baseplate, nom.	23.0	mm
Clearance	$d_{Clear \text{ nom}}$	terminal to terminal, nom.	11.0	mm
Comparative tracking index	CTI		> 400	
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}			20		nH
Module lead resistance, terminals - chip	$R_{AA'+CC'}$	$T_C = 25 \text{ °C}$, per switch		0.465		mΩ
Storage temperature	T_{stg}		-40		125	°C
Mounting torque for module mounting	M	- Mounting according to valid application note	3		6	Nm
Terminal connection torque	M	- Mounting according to valid application note	2.5		5	Nm
Weight	G			340		g

Note: The electrical characterization was performed in NPC2 topology, which combines the modules FF3MR12KM1H and FF3MR12KM1H_S.
It has to be considered, that the commutation in this configuration takes place between both modules

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}		280	A

(table continues...)

Table 3 (continued) Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Continuous DC drain current	I_{DDC}	$T_{\text{vj}} = 175\text{ °C}$, $V_{\text{GS}} = 18\text{ V}$	$T_{\text{C}} = 115\text{ °C}$	200	A
Repetitive peak drain current	I_{DRM}	verified by design, t_{p} limited by T_{vjmax}		560	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	$V_{\text{GS(on)}}$		15...18	V
Off-state gate voltage	$V_{\text{GS(off)}}$		-5...0	V

Table 5 Characteristic values

Parameter	Symbol	Note or test condition		Values			Unit
				Min.	Typ.	Max.	
Drain-source on-resistance	$R_{\text{DS(on)}}$	$I_{\text{D}} = 280\text{ A}$	$V_{\text{GS}} = 18\text{ V}$, $T_{\text{vj}} = 25\text{ °C}$		2.9	4.4	mΩ
			$V_{\text{GS}} = 18\text{ V}$, $T_{\text{vj}} = 125\text{ °C}$		4.8		
			$V_{\text{GS}} = 18\text{ V}$, $T_{\text{vj}} = 175\text{ °C}$		6.3		
			$V_{\text{GS}} = 15\text{ V}$, $T_{\text{vj}} = 25\text{ °C}$		3.5		
Gate threshold voltage	$V_{\text{GS(th)}}$	$I_{\text{D}} = 112\text{ mA}$, $V_{\text{DS}} = V_{\text{GS}}$, $T_{\text{vj}} = 25\text{ °C}$, (tested after 1ms pulse at $V_{\text{GS}} = +20\text{ V}$)		3.5	4.3	5.1	V
Total gate charge	Q_{G}	$V_{\text{DD}} = 800\text{ V}$, $V_{\text{GS}} = -3/18\text{ V}$, $T_{\text{vj}} = 25\text{ °C}$			0.8		μC
Internal gate resistor	R_{Gint}	$T_{\text{vj}} = 25\text{ °C}$			1.9		Ω
Input capacitance	C_{ISS}	$f = 100\text{ kHz}$, $V_{\text{DS}} = 800\text{ V}$, $V_{\text{GS}} = 0\text{ V}$	$T_{\text{vj}} = 25\text{ °C}$		24.2		nF
Output capacitance	C_{OSS}	$f = 100\text{ kHz}$, $V_{\text{DS}} = 800\text{ V}$, $V_{\text{GS}} = 0\text{ V}$	$T_{\text{vj}} = 25\text{ °C}$		1.2		nF
Reverse transfer capacitance	C_{RSS}	$f = 100\text{ kHz}$, $V_{\text{DS}} = 800\text{ V}$, $V_{\text{GS}} = 0\text{ V}$	$T_{\text{vj}} = 25\text{ °C}$		0.079		nF
C_{OSS} stored energy	E_{OSS}	$V_{\text{DS}} = 800\text{ V}$, $V_{\text{GS}} = -3/18\text{ V}$, $T_{\text{vj}} = 25\text{ °C}$			473		μJ
Drain-source leakage current	I_{DSS}	$V_{\text{DS}} = 1200\text{ V}$, $V_{\text{GS}} = -3\text{ V}$	$T_{\text{vj}} = 25\text{ °C}$		0.16	378	μA

(table continues...)

Table 5 (continued) **Characteristic values**

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Gate-source leakage current	I_{GSS}	$V_{DS} = 0 \text{ V}$, $T_{vj} = 25 \text{ }^{\circ}\text{C}$ $V_{GS} = 20 \text{ V}$			400	nA
Turn-on delay time (inductive load)	$t_{d\ on}$	$I_D = 280 \text{ A}$, $R_{Gon} = 5.6 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3/18 \text{ V}$, $t_{dead} = 1000 \text{ ns}$, $0.1 \text{ } V_{GS}$ to $0.1 \text{ } I_D$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	118		ns
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	113		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	108		
Rise time (inductive load)	t_r	$I_D = 280 \text{ A}$, $R_{Gon} = 5.6 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3/18 \text{ V}$, $t_{dead} = 1000 \text{ ns}$, $0.1 \text{ } I_D$ to $0.9 \text{ } I_D$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	116		ns
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	126		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	131		
Turn-off delay time (inductive load)	$t_{d\ off}$	$I_D = 280 \text{ A}$, $R_{Goff} = 2 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3/18 \text{ V}$, $0.9 \text{ } V_{GS}$ to $0.9 \text{ } I_D$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	110		ns
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	121		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	127		
Fall time (inductive load)	t_f	$I_D = 280 \text{ A}$, $R_{Goff} = 2 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $V_{GS} = -3/18 \text{ V}$, $0.9 \text{ } I_D$ to $0.1 \text{ } I_D$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	30		ns
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	32		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	34		
Turn-on energy loss per pulse	E_{on}	$I_D = 280 \text{ A}$, $V_{DD} = 600 \text{ V}$, $L_{\sigma} = 31 \text{ nH}$, $V_{GS} = -3/18 \text{ V}$, $R_{Gon} = 5.6 \text{ } \Omega$, $di/dt =$ $3.4 \text{ kA}/\mu\text{s}$ ($T_{vj} = 175 \text{ }^{\circ}\text{C}$), $t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	8		mJ
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	9.1		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	9.7		
Turn-on energy loss per pulse, optimized	$E_{on,o}$	$I_D = 280 \text{ A}$, $V_{DD} = 600 \text{ V}$, $L_{\sigma} = 31 \text{ nH}$, $V_{GS} = -3/18 \text{ V}$, $R_{Gon,o} = 0.68 \text{ } \Omega$, $di/dt =$ $6.9 \text{ kA}/\mu\text{s}$ ($T_{vj} = 175 \text{ }^{\circ}\text{C}$), $t_{dead} = 100 \text{ ns}$	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	2.3		mJ
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	2.3		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	2.4		
Turn-off energy loss per pulse	E_{off}	$I_D = 280 \text{ A}$, $V_{DD} = 600 \text{ V}$, $L_{\sigma} = 31 \text{ nH}$, $V_{GS} = -3/18 \text{ V}$, $R_{Goff} = 2 \text{ } \Omega$, $dv/dt = 15.7$ $\text{kV}/\mu\text{s}$ ($T_{vj} = 175 \text{ }^{\circ}\text{C}$)	$T_{vj} = 25 \text{ }^{\circ}\text{C}$	7		mJ
			$T_{vj} = 125 \text{ }^{\circ}\text{C}$	7.1		
			$T_{vj} = 175 \text{ }^{\circ}\text{C}$	7.5		
Thermal resistance, junction to case	R_{thJC}	per MOSFET			0.176	K/W
Thermal resistance, case to heat sink	R_{thCH}	per MOSFET		0.049		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 Notes AN 2018-09 and AN 2021-13 must be considered to ensure sound operation of the device over the planned lifetime.

$T_{vj,op} > 150^{\circ}\text{C}$ 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}	$T_{vj} = 175^{\circ}\text{C}$, $V_{GS} = -3\text{ V}$	$T_C = 115^{\circ}\text{C}$	90	A

Table 7 Characteristic values

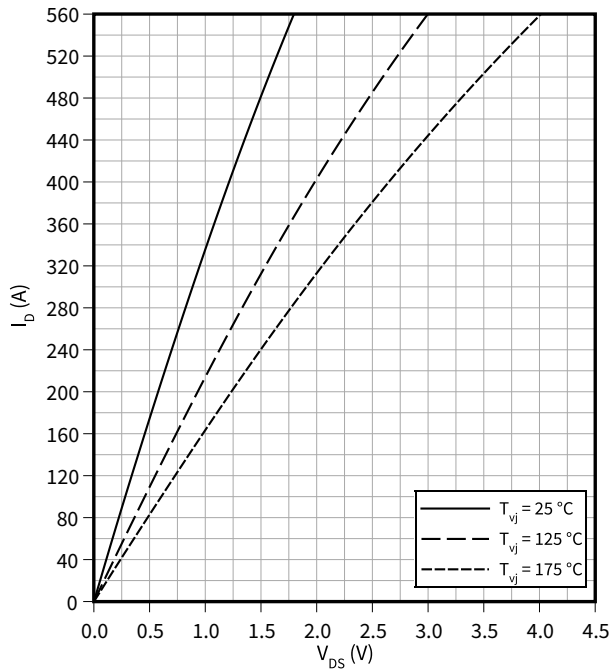
Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	V_{SD}	$I_{SD} = 280\text{ A}$, $V_{GS} = -3\text{ V}$	$T_{vj} = 25^{\circ}\text{C}$	4.22	5.59	V
			$T_{vj} = 125^{\circ}\text{C}$	3.95		
			$T_{vj} = 175^{\circ}\text{C}$	3.85		
Peak reverse recovery current	I_{rrm}	$I_{SD} = 280\text{ A}$, $di_s/dt = 3.4\text{ kA}/\mu\text{s}$, $V_{DD} = 600\text{ V}$, $V_{GS} = -3\text{ V}$, $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25^{\circ}\text{C}$	111		A
			$T_{vj} = 125^{\circ}\text{C}$	155		
			$T_{vj} = 175^{\circ}\text{C}$	184		
Recovered charge	Q_{rr}	$I_{SD} = 280\text{ A}$, $di_s/dt = 3.4\text{ kA}/\mu\text{s}$, $V_{DD} = 600\text{ V}$, $V_{GS} = -3\text{ V}$, $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25^{\circ}\text{C}$	5.3		μC
			$T_{vj} = 125^{\circ}\text{C}$	6.9		
			$T_{vj} = 175^{\circ}\text{C}$	9.1		
Reverse recovery energy	E_{rec}	$I_{SD} = 280\text{ A}$, $di_s/dt = 3.4\text{ kA}/\mu\text{s}$ ($T_{vj} = 175^{\circ}\text{C}$), $V_{DD} = 600\text{ V}$, $V_{GS} = -3\text{ V}$, $t_{dead} = 1000\text{ ns}$	$T_{vj} = 25^{\circ}\text{C}$	1		mJ
			$T_{vj} = 125^{\circ}\text{C}$	1.8		
			$T_{vj} = 175^{\circ}\text{C}$	2.6		
Reverse recovery energy, optimized	$E_{rec,o}$	$I_{SD} = 280\text{ A}$, $di_s/dt = 6.9\text{ kA}/\mu\text{s}$ ($T_{vj} = 175^{\circ}\text{C}$), $V_{DD} = 600\text{ V}$, $V_{GS} = -3\text{ V}$, $t_{dead} = 100\text{ ns}$	$T_{vj} = 25^{\circ}\text{C}$	3.1		mJ
			$T_{vj} = 125^{\circ}\text{C}$	3.1		
			$T_{vj} = 175^{\circ}\text{C}$	4.6		

4 Characteristics diagrams

Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

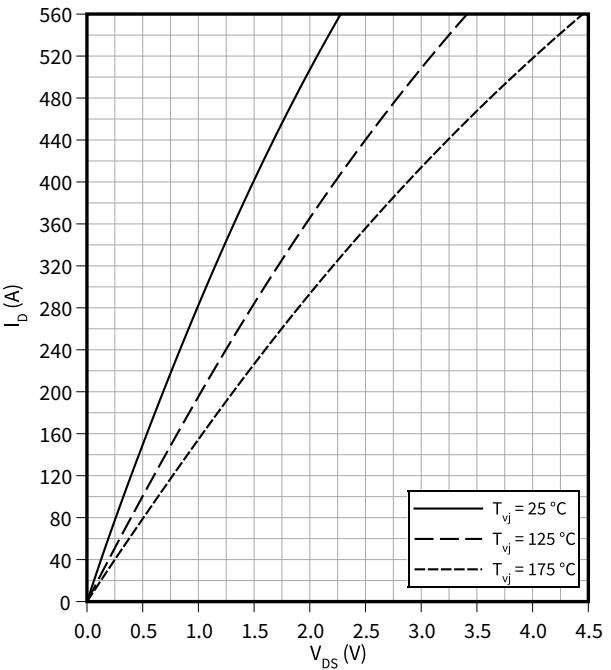
$V_{GS} = 18\text{ V}$



Output characteristic (typical), MOSFET

$I_D = f(V_{DS})$

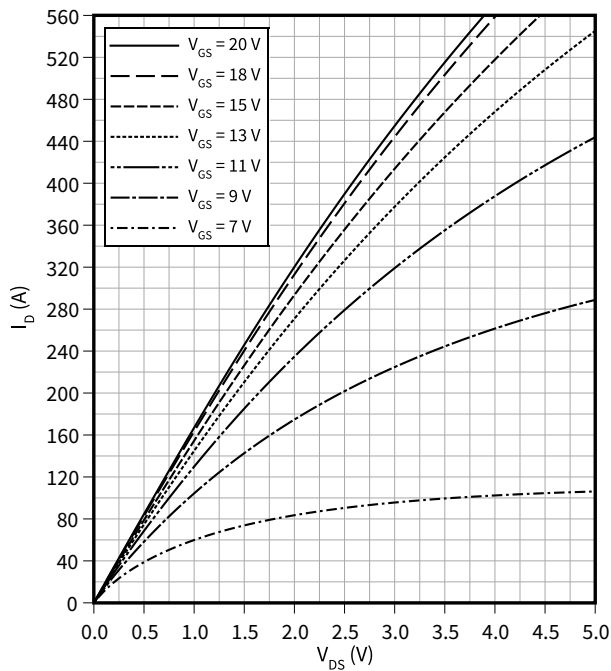
$V_{GS} = 15\text{ V}$



Output characteristic field (typical), MOSFET

$I_D = f(V_{DS})$

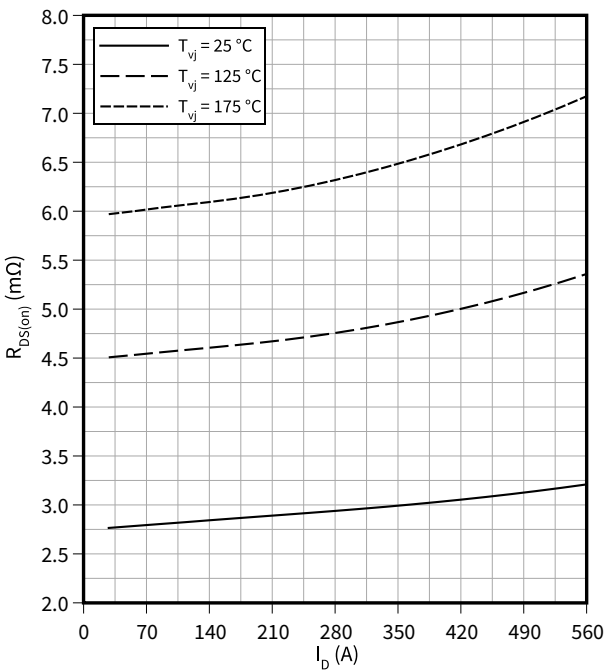
$T_{vj} = 175\text{ °C}$



Drain source on-resistance (typical), MOSFET

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

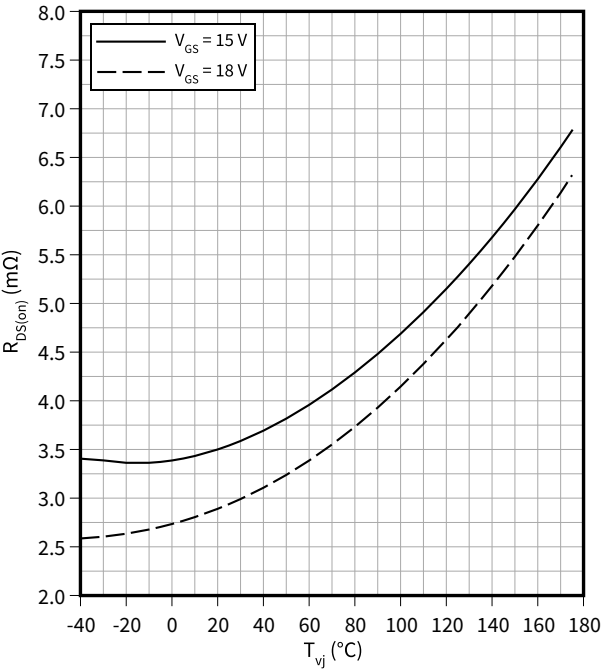
$V_{GS} = 18\text{ V}$



4 Characteristics diagrams

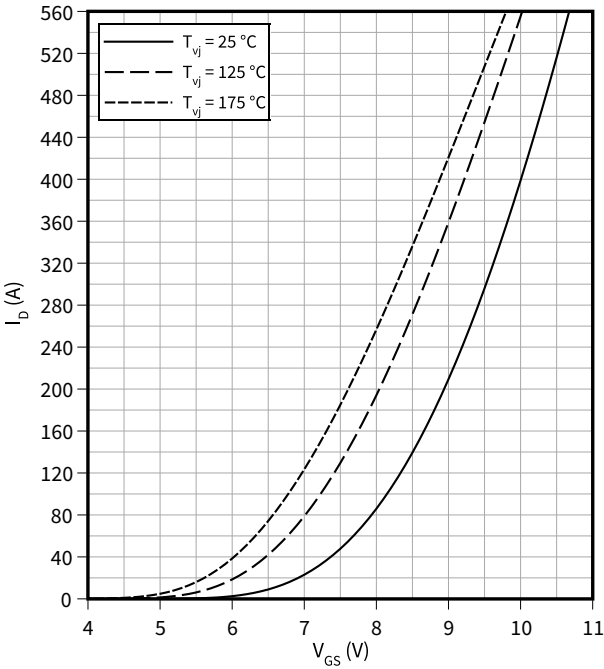
Drain source on-resistance (typical), MOSFET

$R_{DS(on)} = f(T_{vj})$
 $I_D = 280\text{ A}$



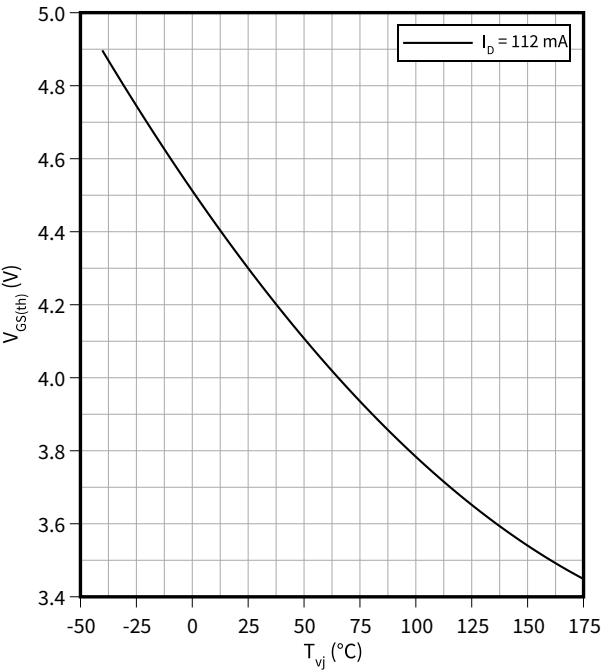
Transfer characteristic (typical), MOSFET

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



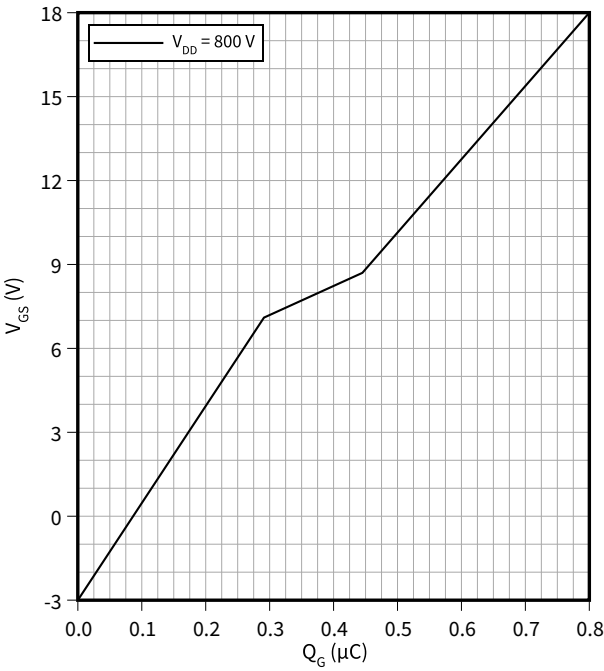
Gate-source threshold voltage (typical), MOSFET

$V_{GS(th)} = f(T_{vj})$
 $I_D = 112\text{ mA}$, $V_{DS} = V_{GS}$



Gate charge characteristic (typical), MOSFET

$V_{GS} = f(Q_G)$
 $I_D = 280\text{ A}$, $T_{vj} = 25\text{ °C}$

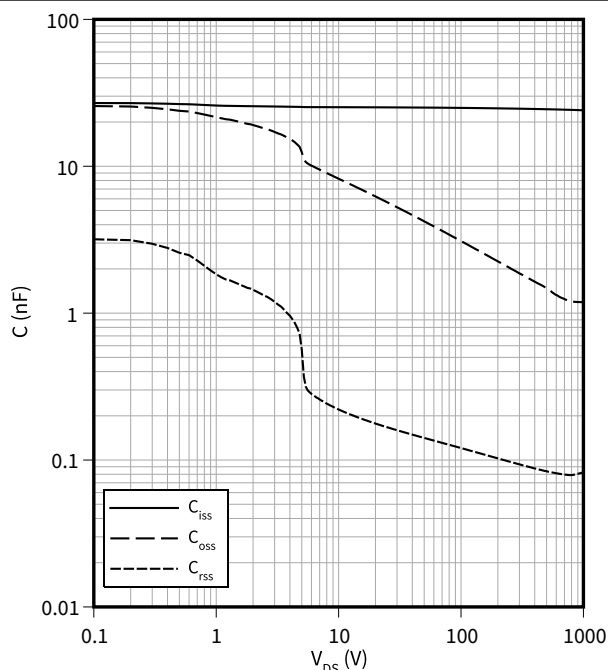


4 Characteristics diagrams

Capacity characteristic (typical), MOSFET

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

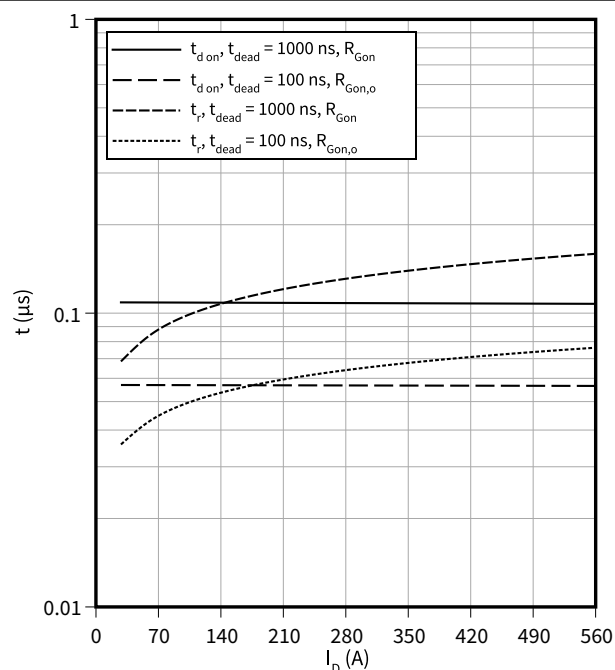
$f = 100 \text{ kHz}$, $T_{vj} = 25 \text{ }^{\circ}\text{C}$, $V_{GS} = 0 \text{ V}$



Switching times (typical), MOSFET

$$t = f(I_D)$$

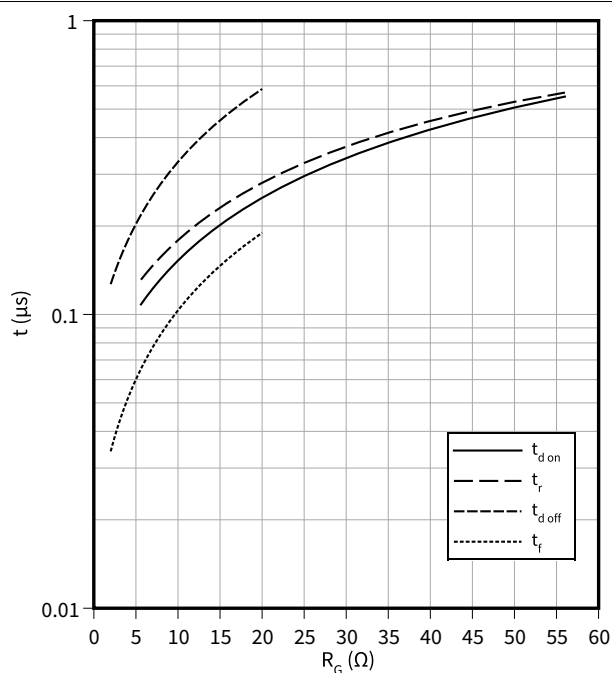
$R_{Gon} = 5.6 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $R_{Gon,o} = 0.68 \text{ } \Omega$, $T_{vj} = 175 \text{ }^{\circ}\text{C}$, $V_{GS} = -3/18 \text{ V}$



Switching times (typical), MOSFET

$$t = f(R_G)$$

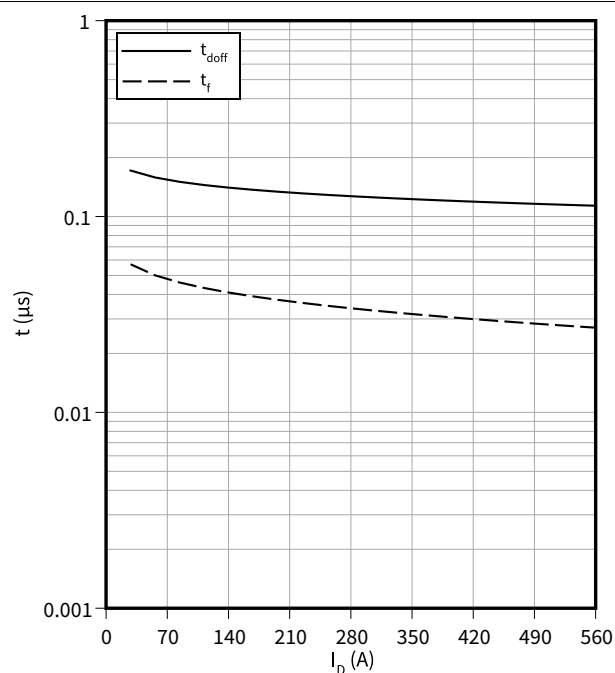
$V_{DD} = 600 \text{ V}$, $t_{dead} = 1000 \text{ ns}$, $I_D = 280 \text{ A}$, $T_{vj} = 175 \text{ }^{\circ}\text{C}$, $V_{GS} = -3/18 \text{ V}$



Switching times (typical), MOSFET

$$t = f(I_D)$$

$R_{Goff} = 2 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $T_{vj} = 175 \text{ }^{\circ}\text{C}$, $V_{GS} = -3/18 \text{ V}$

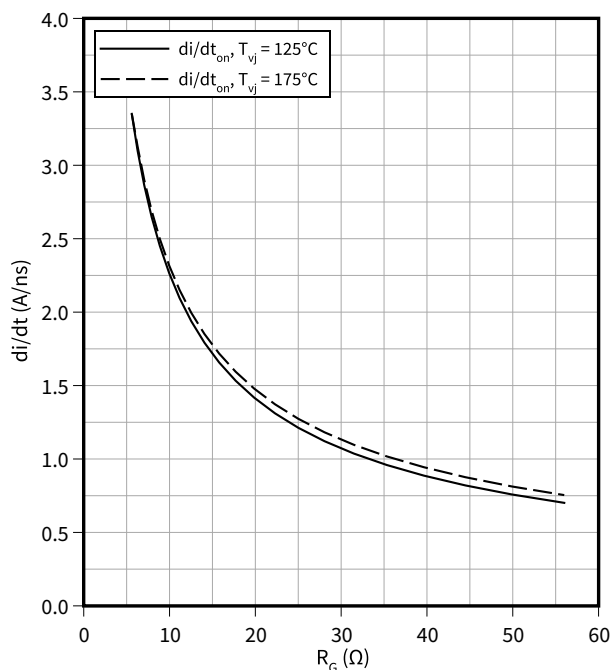


4 Characteristics diagrams

Current slope (typical), MOSFET

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

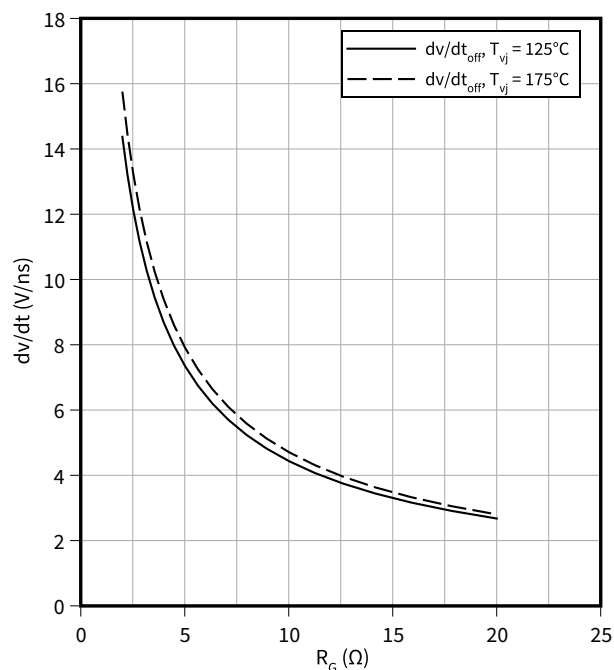
$V_{DD} = 600 \text{ V}$, $t_{dead} = 1000 \text{ ns}$, $I_D = 280 \text{ A}$, $V_{GS} = -3/18 \text{ V}$



Voltage slope (typical), MOSFET

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

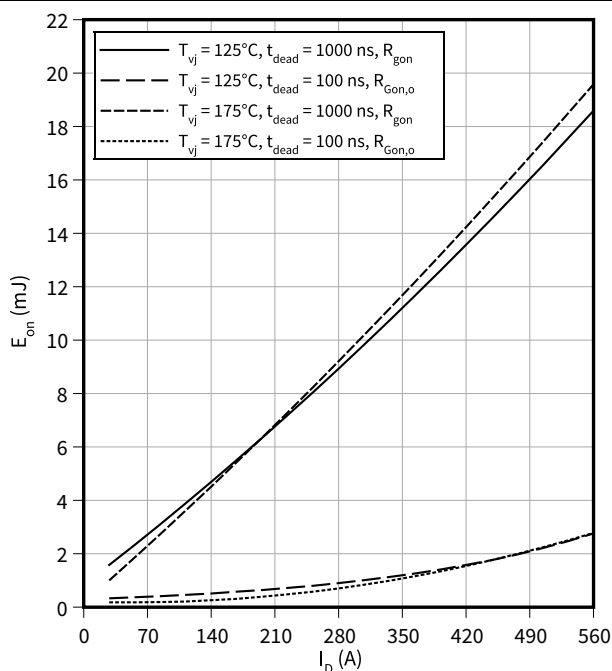
$V_{DD} = 600 \text{ V}$, $I_D = 280 \text{ A}$, $V_{GS} = -3/18 \text{ V}$



Switching losses (typical), MOSFET

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

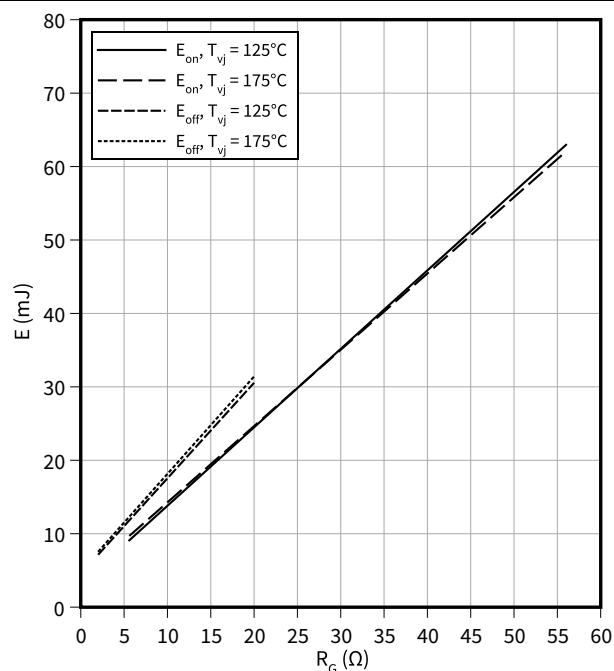
$R_{Gon} = 5.6 \text{ } \Omega$, $V_{DD} = 600 \text{ V}$, $R_{Gon,o} = 0.68 \text{ } \Omega$, $V_{GS} = -3/18 \text{ V}$



Switching losses (typical), MOSFET

$$E = f(R_G)$$

$t_{dead} = 1000 \text{ ns}$, $V_{DD} = 600 \text{ V}$, $I_D = 280 \text{ A}$, $V_{GS} = -3/18 \text{ V}$

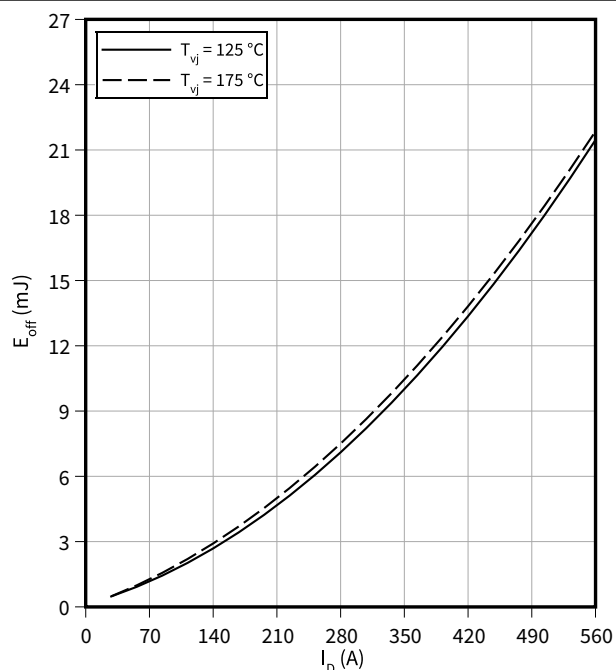


4 Characteristics diagrams

Switching losses (typical), MOSFET

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

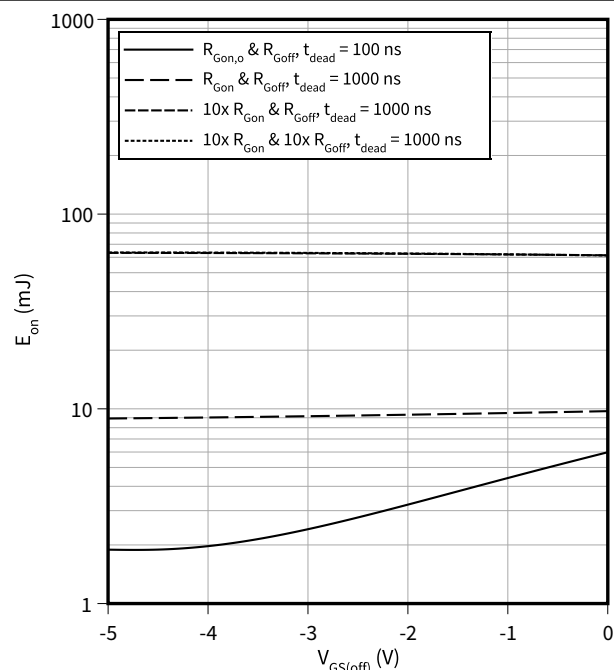
$$R_{\text{Goff}} = 2 \, \Omega, V_{\text{DD}} = 600 \, \text{V}, V_{\text{GS}} = -3/18 \, \text{V}$$



Switching losses (typical), MOSFET

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

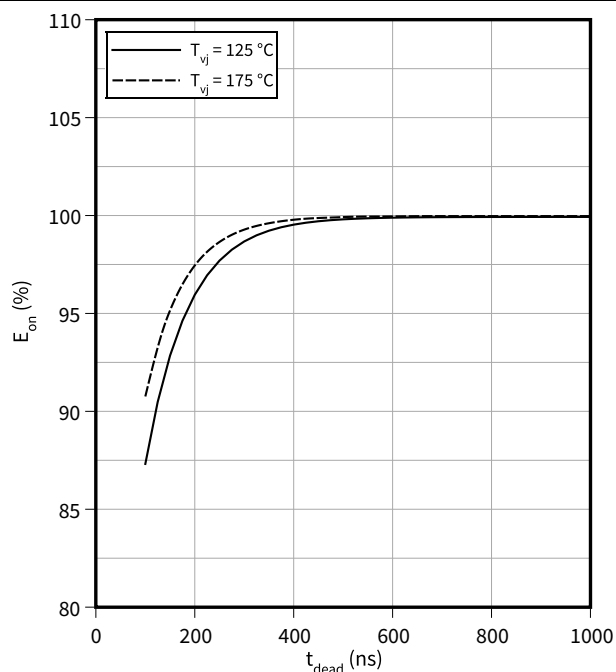
$$R_{\text{Goff}} = 2 \, \Omega, V_{\text{DD}} = 600 \, \text{V}, R_{\text{Gon}} = 5.6 \, \Omega, V_{\text{GS(on)}} = 18 \, \text{V}, I_D = 280 \, \text{A}, R_{\text{Gon,o}} = 0.68 \, \Omega, T_{\text{vj}} = 175 \, ^\circ\text{C}$$



Switching losses (typical), MOSFET

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

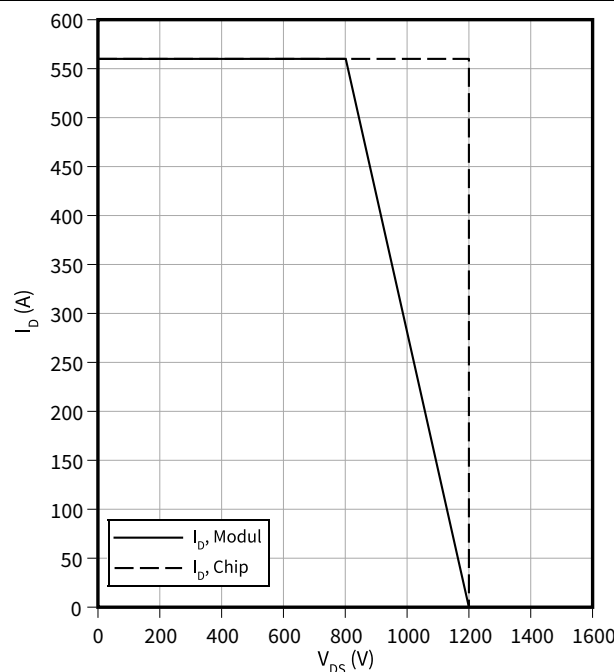
$$R_{\text{Gon}} = 5.6 \, \Omega, I_D = 280 \, \text{A}, V_{\text{DD}} = 600 \, \text{V}, V_{\text{GS}} = -3/18 \, \text{V}$$



Reverse bias safe operating area (RBSOA), MOSFET

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

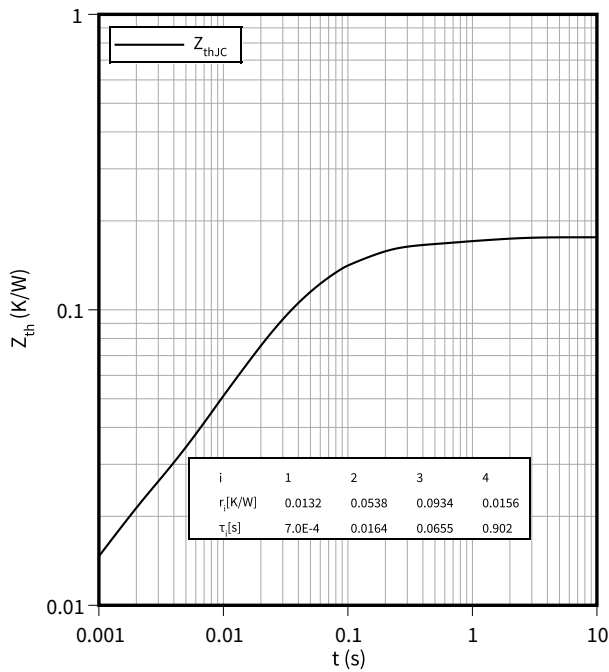
$$R_{\text{Goff}} = 2 \, \Omega, T_{\text{vj}} = 175 \, ^\circ\text{C}, V_{\text{GS}} = -3/18 \, \text{V}$$



4 Characteristics diagrams

Transient thermal impedance, MOSFET

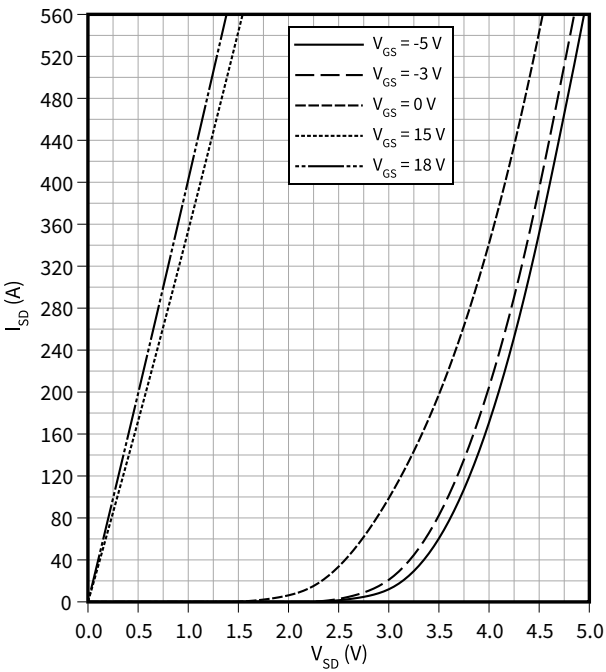
$Z_{th} = f(t)$



Forward characteristic body diode (typical), MOSFET

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

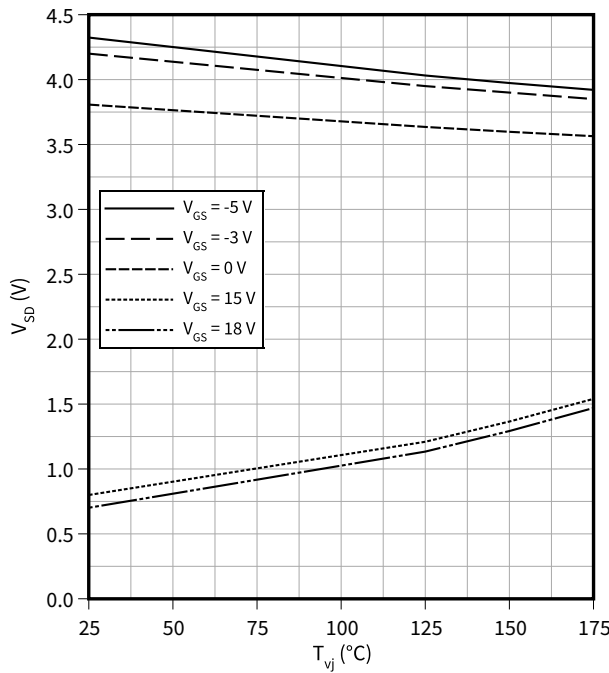
$T_{vj} = 25\text{ }^{\circ}\text{C}$



Forward voltage of body diode (typical), MOSFET

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

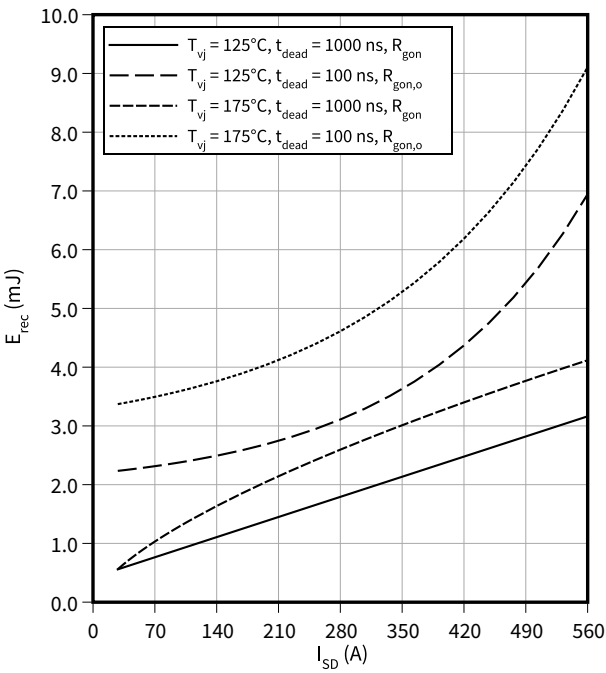
$I_{SD} = 280\text{ A}$



Switching losses body diode (typical), MOSFET

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

$R_{Gon} = 5.6\text{ }\Omega$, $R_{Gon,o} = 0.68\text{ }\Omega$, $V_{DD} = 600\text{ V}$

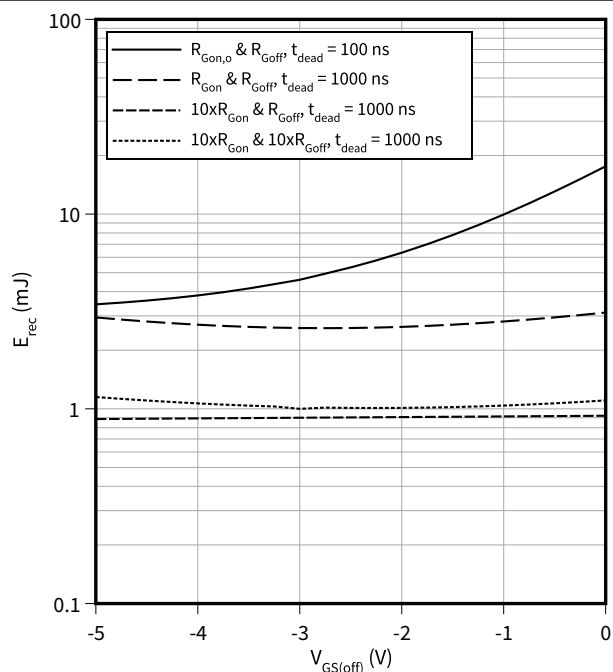


4 Characteristics diagrams

Switching losses body diode (typical), MOSFET

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

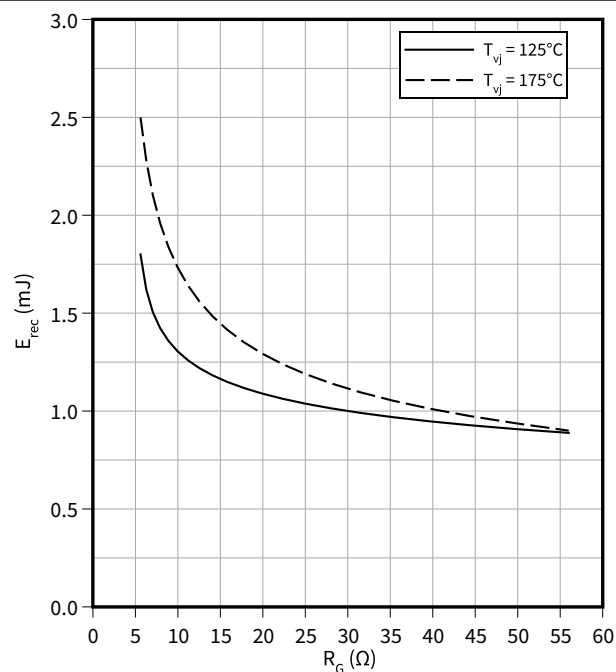
$R_{\text{Goff}} = 2 \Omega$, $R_{\text{Gon}} = 5.6 \Omega$, $T_{\text{vj}} = 175^\circ\text{C}$, $V_{\text{GS(on)}} = 18 \text{ V}$, $R_{\text{Gon,o}} = 0.68 \Omega$, $V_{\text{DD}} = 600 \text{ V}$, $I_{\text{SD}} = 280 \text{ A}$



Switching losses body diode (typical), MOSFET

$$E_{\text{rec}} = f(R_{\text{G}})$$

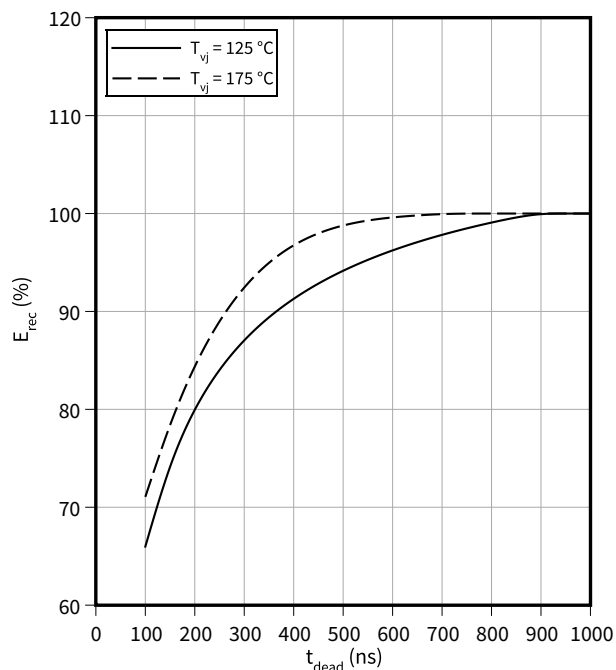
$t_{\text{dead}} = 1000 \text{ ns}$, $V_{\text{DD}} = 600 \text{ V}$, $I_{\text{SD}} = 280 \text{ A}$



Switching losses body diode (typical), MOSFET

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

$R_{\text{Gon}} = 5.6 \Omega$, $I_{\text{SD}} = 280 \text{ A}$, $V_{\text{DD}} = 600 \text{ V}$, $V_{\text{GS}} = -3/18 \text{ V}$



5 Circuit diagram

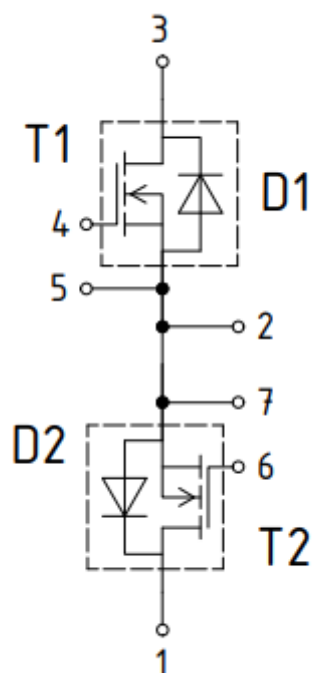


Figure 1

6 Package outlines

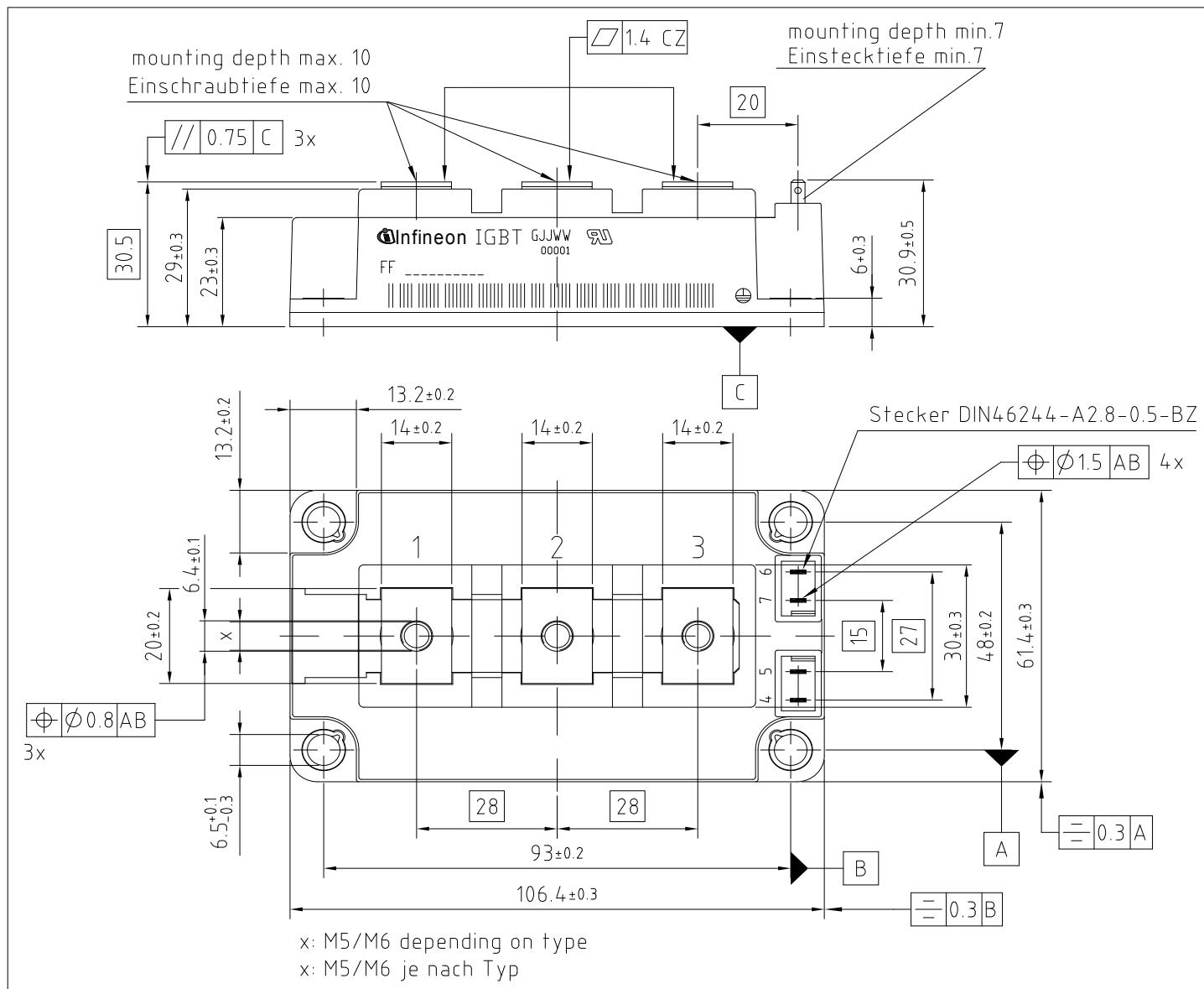


Figure 2

7 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
1.00	2025-07-30	Final datasheet

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