

#### Final datasheet

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

#### **Features**

- · Electrical features
  - V<sub>DSS</sub> = 1200 V
  - $I_{DN} = 75 A / I_{DRM} = 150 A$
  - Low inductive design
  - Low switching losses
  - High current density
  - Suitable Infineon gate drivers can be found under https://www.infineon.com/gdfinder
- Mechanical features
  - PressFIT contact technology
  - Integrated NTC temperature sensor
  - Rugged mounting due to integrated mounting clamps
  - AlN substrate with low thermal resistance

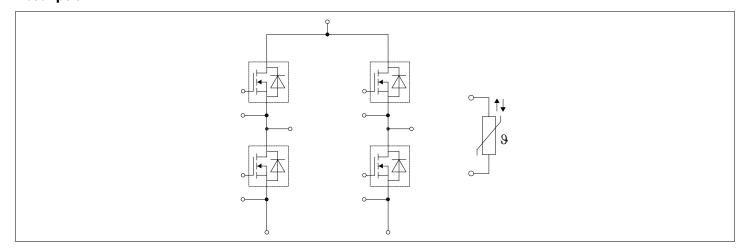
#### **Potential applications**

- High-frequency switching application
- DC/DC converter
- UPS systems
- · DC charger for EV

#### **Product validation**

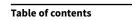
• Qualified for industrial applications according to the relevant tests of IEC 60747, 60749 and 60068

#### **Description**





# **EasyPACK™ module**





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#### **EasyPACK™ module**

1 Package



# 1 Package

#### Table 1 Insulation coordination

Parameter	Symbol	Note or test condition	Values	Unit
Isolation test voltage	V <sub>ISOL</sub>	RMS, f = 50 Hz, t = 1 min	3.0	kV
Isolation test voltage NTC	V <sub>ISOL(NTC)</sub>	RMS, f = 50 Hz, t = 1 min	3.0	kV
Internal isolation		basic insulation (class 1, IEC 61140)	AlN	
Comparative tracking index	СТІ		> 200	
Relative thermal index (electrical)	RTI	housing	140	°C

#### Table 2 Characteristic values

Parameter	Symbol	Note or test condition		Values		Unit
			Min.	Тур.	Max.	
Stray inductance module	L <sub>sCE</sub>			9		nH
Module lead resistance, terminals - chip	R <sub>CC'+EE'</sub>	T <sub>H</sub> = 25 °C, per switch		2.2		mΩ
Storage temperature	$T_{\rm stg}$		-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 <sub>DSS</sub>		T <sub>vj</sub> = 25 °C	1200	V
Continuous DC drain current	I <sub>DDC</sub>	$T_{\rm vj}$ = 175 °C, $V_{\rm GS}$ = 18 V	T <sub>H</sub> = 100 °C	75	А
Repetitive peak drain current	I <sub>DRM</sub>	verified by design, t <sub>p</sub> lim	iited by T <sub>vjmax</sub>	150	A
Gate-source voltage, max. transient voltage	V <sub>GS</sub>	D < 0.01		-10/23	V
Gate-source voltage, max. static voltage	V <sub>GS</sub>			-7/20	V

#### Table 4 Recommended values

Parameter	Symbol	Note or test condition	Values	Unit
On-state gate voltage	V <sub>GS(on)</sub>		1518	V

### **EasyPACK™ module**

2 MOSFET



### Table 4 (continued) Recommended values

Parameter	Symbol	Note or test condition	Values	Unit
Off-state gate voltage	V <sub>GS(off)</sub>		-50	V

#### Table 5 Characteristic values

Parameter	Symbol	Note or test condition			Values		Unit
				Min.	Тур.	Max.	
Drain-source on-resistance	R <sub>DS(on)</sub>	I <sub>D</sub> = 75 A	V <sub>GS</sub> =18 V, T <sub>vj</sub> =25 °C		10.8	14	mΩ
			V <sub>GS</sub> =18 V, T <sub>vj</sub> =125 °C		17.4		
			V <sub>GS</sub> =18 V, T <sub>vj</sub> =175 °C		23.1		
			$V_{\rm GS} = 15 \text{ V},$ $T_{\rm vj} = 25 ^{\circ}\text{C}$		12.9		
Gate threshold voltage	V <sub>GS(th)</sub>	$I_D = 30 \text{ mA}, V_{DS} = V_{GS}, T_{vj} = 1 \text{ms pulse at } V_{GS} = +20 \text{ V})$	25 °C, (tested after	3.45	4.3	5.15	V
Total gate charge	Q <sub>G</sub>	$V_{\rm DD}$ =800 V, $V_{\rm GS}$ = -3/18 V, 7	Γ <sub>vj</sub> = 25 °C		0.223		μC
Internal gate resistor	R <sub>Gint</sub>	T <sub>vj</sub> =25 °C			2.7		Ω
Input capacitance	C <sub>ISS</sub>	$f = 100 \text{ kHz}, V_{DS} = 800 \text{ V}, V_{GS} = 0 \text{ V}$	T <sub>vj</sub> =25 °C		6.6		nF
Output capacitance	Coss	$f = 100 \text{ kHz}, V_{DS} = 800 \text{ V},$ $V_{GS} = 0 \text{ V}$	T <sub>vj</sub> =25 °C		0.315		nF
Reverse transfer capacitance	C <sub>rss</sub>	$f = 100 \text{ kHz}, V_{DS} = 800 \text{ V},$ $V_{GS} = 0 \text{ V}$	T <sub>vj</sub> =25 °C		0.021		nF
C <sub>OSS</sub> stored energy	E <sub>OSS</sub>	$V_{\rm DS}$ =800 V, $V_{\rm GS}$ = -3/18 V, 7	<sub>vj</sub> = 25 °C		129		μJ
Drain-source leakage current	I <sub>DSS</sub>	$V_{\rm DS}$ = 1200 V, $V_{\rm GS}$ = -3 V	T <sub>vj</sub> = 25 °C		0.045	300	μA
Gate-source leakage current	I <sub>GSS</sub>	$V_{\rm DS} = 0 \text{ V}, T_{\rm vj} = 25 ^{\circ}\text{C}$	V <sub>GS</sub> =20 V			400	nA
Turn-on delay time	t <sub>d on</sub>	$I_{\rm D} = 75  \text{A}, R_{\rm Gon} = 6.2  \Omega,$	T <sub>vj</sub> = 25 °C		32		ns
(inductive load)		$V_{DD} = 600 \text{ V}, V_{GS} = -3/18 \text{ V},$ $t_{dead} = 1000 \text{ ns}, 0.1 \text{ V}_{GS}$	T <sub>vj</sub> = 125 °C		32		
		to 0.1 I <sub>D</sub>	T <sub>vj</sub> = 175 °C		32		
Rise time (inductive load)	t <sub>r</sub>	$I_{\rm D} = 75  \text{A}, R_{\rm Gon} = 6.2  \Omega,$	T <sub>vj</sub> = 25 °C		16		ns
		$V_{DD} = 600 \text{ V}, V_{GS} = -3/18 \text{ V},$ $t_{dead} = 1000 \text{ ns}, 0.1 \text{ I}_{D} \text{ to}$	T <sub>vj</sub> = 125 °C		16		
		0.9 I <sub>D</sub>	T <sub>vj</sub> = 175 °C		16		
Turn-off delay time	t <sub>d off</sub>	$I_{\rm D} = 75  \text{A},  R_{\rm Goff} = 0.51  \Omega,$	T <sub>vj</sub> = 25 °C		36		ns
(inductive load)		$V_{DD} = 600 \text{ V}, V_{GS} = -3/18 \text{ V},$ 0.9 $V_{GS}$ to 0.9 $I_{D}$	T <sub>vj</sub> = 125 °C		39		1
		0.5 VGS to 0.5 ID	T <sub>vi</sub> = 175 °C		40		

(table continues...)

#### EasyPACK™ module

3 Body diode (MOSFET)



#### Table 5 (continued) Characteristic values

Parameter	Symbol	Note or test condition			Values		Unit
				Min.	Тур.	Max.	
Fall time (inductive load)	t <sub>f</sub>	$I_{\rm D} = 75  \text{A}, R_{\rm Goff} = 0.51  \Omega,$	T <sub>vj</sub> = 25 °C		14		ns
		$V_{DD} = 600 \text{ V}, V_{GS} = -3/18 \text{ V},$ 0.9 I <sub>D</sub> to 0.1 I <sub>D</sub>	T <sub>vj</sub> = 125 °C		14		
		0.5 10 to 0.1 10	T <sub>vj</sub> = 175 °C		16		
Turn-on energy loss per	Furn-on energy loss per $E_{\text{on}}$ $I_{\text{D}} = 75 \text{ A}, V_{\text{DD}} = 600 \text{ N}$	$I_{\rm D} = 75 \text{ A}, V_{\rm DD} = 600 \text{ V},$	T <sub>vj</sub> = 25 °C		1.49		mJ
pulse		$L_{\sigma} = 15 \text{ nH}, V_{GS} = -3/18 \text{ V},$ $R_{Gon} = 6.2 \Omega, \text{ di/dt} =$	T <sub>vj</sub> = 125 °C		1.61		
		$\kappa_{\text{Gon}}$ – 6.2 $\Omega$ , $\omega$ / $\omega$ t –	T <sub>vj</sub> = 175 °C		1.82		
Turn-on energy loss per	E <sub>on,o</sub>	$I_{\rm D} = 75 \text{ A}, V_{\rm DD} = 600 \text{ V},$	T <sub>vj</sub> = 25 °C		0.88		mJ
pulse, optimized		$L_{\sigma} = 15 \text{ nH}, V_{GS} = -3/18 \text{ V},$ $R_{Gon.o} = 2.7 \Omega, \text{ di/dt} =$	T <sub>vj</sub> = 125 °C		0.93		
		8.3 kA/ $\mu$ s ( $T_{vj}$ = 175 °C), $t_{dead}$ = 100 ns	T <sub>vj</sub> = 175 °C		1		
Turn-off energy loss per	E <sub>off</sub>	$I_{\rm D} = 75 \text{ A}, V_{\rm DD} = 600 \text{ V},$	T <sub>vj</sub> = 25 °C		0.122		mJ
pulse		$L_{\sigma} = 15 \text{ nH}, V_{GS} = -3/18 \text{ V},$ $R_{Goff} = 0.51 \Omega, \text{ dv/dt} =$	T <sub>vj</sub> = 125 °C		0.143		
		$44.2 \text{ kV/}\mu\text{s} (T_{\text{vj}} = 175 \text{ °C})$	T <sub>vj</sub> = 175 °C		0.157		
Thermal resistance, junction to heat sink	R <sub>thJH</sub>	per MOSFET, $\lambda_{\text{grease}} = 1 \text{ W}$	/(m·K)		0.423		K/W
Temperature under switching conditions	T <sub>vj op</sub>			-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 Note AN 2018-09 and AN 2021-13 must be considered to ensure sound operation of the device over the planned lifetime.

Tvj,op > 150°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 <sub>SD</sub>	$T_{\rm vj}$ = 175 °C, $V_{\rm GS}$ = -3 V	T <sub>H</sub> = 100 °C	40	Α

#### **EasyPACK™ module**

4 NTC-Thermistor



#### Table 7 Characteristic values

Parameter	Symbol	Note or test condition			Values		Unit
				Min.	Тур.	Max.	
Forward voltage	$V_{\rm SD}$	$I_{SD} = 75 \text{ A}, V_{GS} = -3 \text{ V}$	T <sub>vj</sub> = 25 °C		4.2	5.35	V
			T <sub>vj</sub> = 125 °C		3.9		
			T <sub>vj</sub> = 175 °C		3.8		
Peak reverse recovery	I <sub>rrm</sub>	$I_{SD} = 75 \text{ A}, di_s/dt =$	T <sub>vj</sub> = 25 °C		51		Α
current		5.4 kA/ $\mu$ s, $V_{DD}$ = 600 V, $V_{GS}$ = -3 V, $t_{dead}$ = 1000 ns	T <sub>vj</sub> = 125 °C		67		
		ν <sub>GS</sub> – -5 ν, ι <sub>dead</sub> – 1000 113	T <sub>vj</sub> = 175 °C		82		
Recovered charge	Qrr	Γ 4 k 4 /ν α 1/ - COO 1/	T <sub>vj</sub> = 25 °C		1.1		μC
			T <sub>vj</sub> = 125 °C		1.5		
		ν <sub>GS</sub> – -5 ν, ι <sub>dead</sub> – 1000 113	T <sub>vj</sub> = 175 °C		2.1		
Reverse recovery energy	E <sub>rec</sub>	$I_{SD} = 75 \text{ A}, di_s/dt = 5.4$	T <sub>vj</sub> = 25 °C		0.16		mJ
		$kA/\mu s$ ( $T_{vj} = 175 ^{\circ}C$ ), $V_{DD} = 600 ^{\circ}V$ , $V_{GS} = -3 ^{\circ}V$ ,	T <sub>vj</sub> = 125 °C		0.22		
		$t_{\text{dead}} = 1000 \text{ ns}$	T <sub>vj</sub> = 175 °C		0.37		
Reverse recovery energy,	E <sub>rec,o</sub>	$I_{SD} = 75 \text{ A}, di_s/dt = 8.3$	T <sub>vj</sub> = 25 °C		0.14		mJ
optimized		kA/ $\mu$ s (T <sub>vj</sub> = 175 °C), V <sub>DD</sub> = 600 V, V <sub>GS</sub> = -3 V,	T <sub>vj</sub> = 125 °C		0.19		
		$t_{\text{dead}} = 100 \text{ ns}$	T <sub>vj</sub> = 175 °C		0.24		

### 4 NTC-Thermistor

#### Table 8 Characteristic values

Parameter	Symbol	Note or test condition		Values		Unit
			Min.	Тур.	Max.	
Rated resistance	R <sub>25</sub>	T <sub>NTC</sub> = 25 °C		5		kΩ
Deviation of R <sub>100</sub>	∆R/R	$T_{\rm NTC} = 100 {}^{\circ}{\rm C}$ , $R_{100} = 493 \Omega$	-5		5	%
Power dissipation	P <sub>25</sub>	T <sub>NTC</sub> = 25 °C			20	mW
B-value	B <sub>25/50</sub>	$R_2 = R_{25} \exp[B_{25/50}(1/T_2-1/(298,15 \text{ K}))]$		3375		К
B-value	B <sub>25/80</sub>	$R_2 = R_{25} \exp[B_{25/80}(1/T_2-1/(298,15 \text{ K}))]$		3411		K
B-value	B <sub>25/100</sub>	$R_2 = R_{25} \exp[B_{25/100}(1/T_2-1/(298,15 \text{ K}))]$		3433		K

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

#### EasyPACK™ module

5 Characteristics diagrams

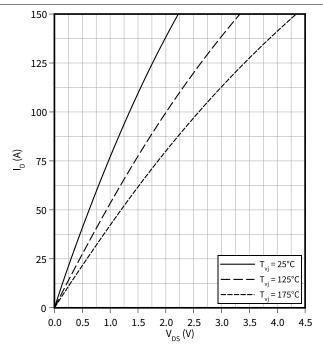


### **5** Characteristics diagrams

#### Output characteristic (typical), MOSFET

 $I_D = f(V_{DS})$ 

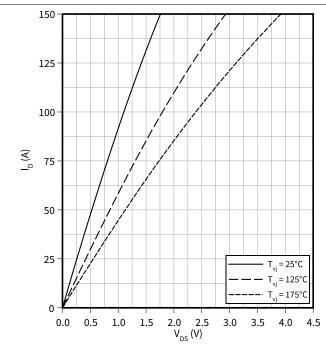
 $V_{GS} = 15 V$ 



#### Output characteristic (typical), MOSFET

 $I_D = f(V_{DS})$ 

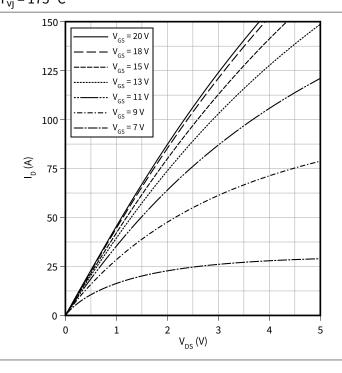
 $V_{GS} = 18 V$ 



#### Output characteristic field (typical), MOSFET

 $I_D = f(V_{DS})$ 

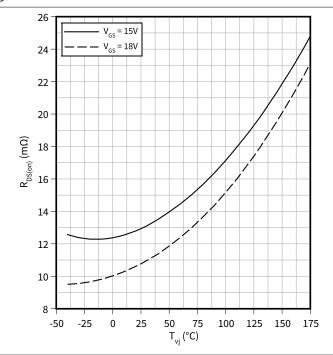
T<sub>vj</sub> = 175 °C



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

 $R_{DS(on)} = f(T_{vj})$ 

 $I_D = 75 A$ 



#### EasyPACK™ module

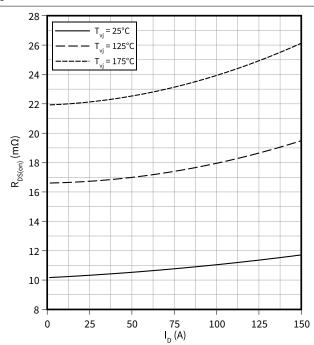
5 Characteristics diagrams



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

$$R_{\mathsf{DS}(\mathsf{on})} = \mathsf{f}(\mathsf{I}_{\mathsf{D}})$$

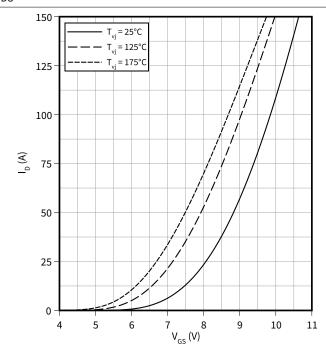
 $V_{GS} = 18 V$ 



#### Transfer characteristic (typical), MOSFET

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

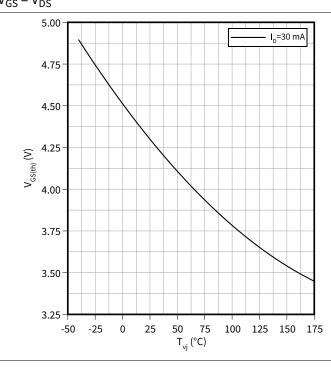
$$V_{DS} = 20 V$$



# Gate-source threshold voltage (typical), MOSFET

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

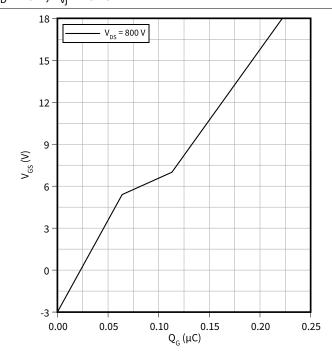
$$V_{GS} = V_{DS}$$



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

$$V_{GS} = f(Q_G)$$

$$I_D = 75 A$$
,  $T_{vi} = 25 °C$ 



#### EasyPACK™ module

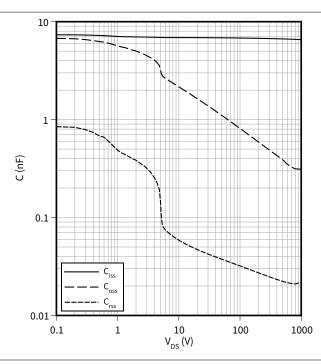
5 Characteristics diagrams



#### Capacity characteristic (typical), MOSFET

 $C = f(V_{DS})$ 

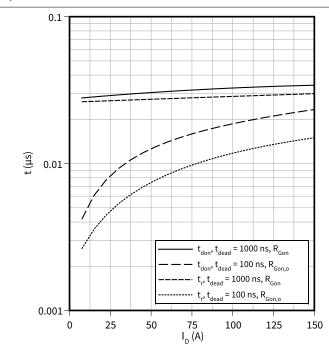
 $f = 100 \text{ kHz}, T_{vi} = 25 \text{ °C}, V_{GS} = 0 \text{ V}$ 



#### Switching times (typical), MOSFET

 $t = f(I_D)$ 

 $V_{DD}$  = 600 V,  $R_{Gon}$  = 6.2  $\Omega,\,R_{Gon,o}$  = 2.7  $\Omega,\,T_{vj}$  = 175 °C,  $V_{GS}$  = -3/18 V



#### Switching times (typical), MOSFET

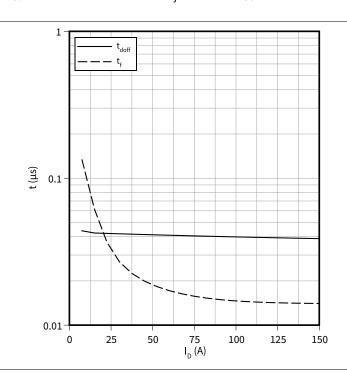
 $t = f(I_D)$ 

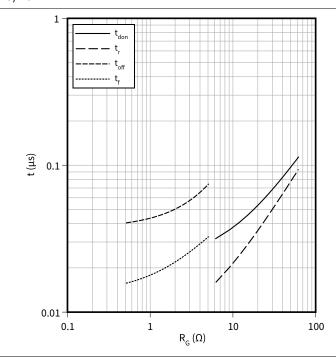
 $R_{Goff} = 0.51 \Omega$ ,  $V_{DD} = 600 V$ ,  $T_{vj} = 175 \,^{\circ}\text{C}$ ,  $V_{GS} = -3/18 \,^{\circ}\text{C}$ 

#### Switching times (typical), MOSFET

 $t = f(R_c)$ 

 $V_{DD}$  = 600 V,  $t_{dead}$  = 1000 ns,  $I_D$  = 75 A,  $T_{vj}$  = 175 °C,  $V_{GS}$  = -3/18 V





#### EasyPACK™ module

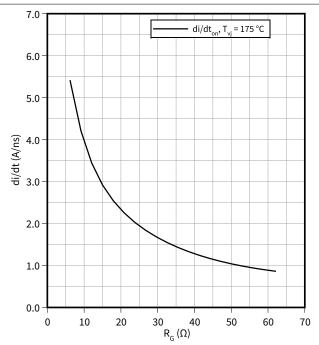
5 Characteristics diagrams



#### **Current slope (typical), MOSFET**

 $di/dt = f(R_G)$ 

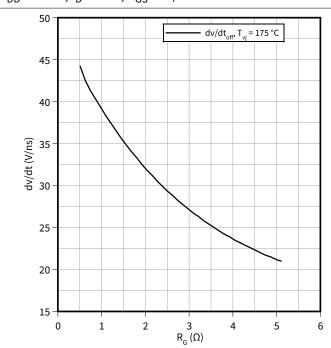
$$V_{DD}$$
 = 600 V,  $t_{dead}$  = 1000 ns,  $I_{D}$  = 75 A,  $V_{GS}$  = -3/18 V



#### Voltage slope (typical), MOSFET

 $dv/dt = f(R_G)$ 

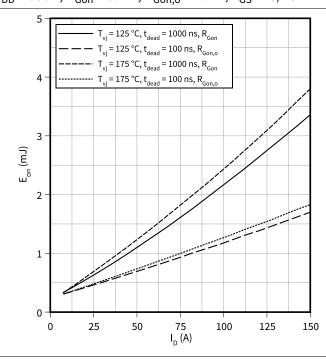
$$V_{DD} = 600 \text{ V}, I_D = 75 \text{ A}, V_{GS} = -3/18 \text{ V}$$



#### Switching losses (typical), MOSFET

 $E_{on} = f(I_D)$ 

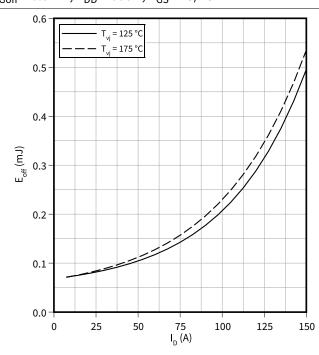
$$V_{DD}$$
 = 600 V,  $R_{Gon}$  = 6.2  $\Omega$ ,  $R_{Gon,o}$  = 2.7  $\Omega$ ,  $V_{GS}$  = -3/18 V



#### Switching losses (typical), MOSFET

 $E_{off} = f(I_D)$ 

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



#### EasyPACK™ module

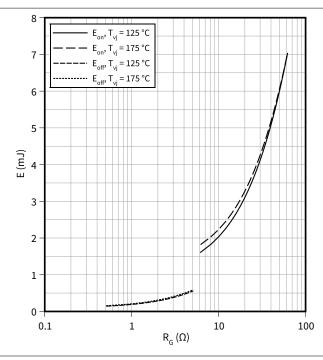
**5 Characteristics diagrams** 



#### Switching losses (typical), MOSFET

 $E = f(R_G)$ 

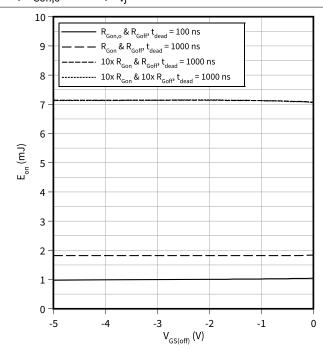
 $V_{DD}$  = 600 V,  $t_{dead}$  = 1000 ns,  $I_{D}$  = 75 A,  $V_{GS}$  = -3/18 V



#### Switching losses (typical), MOSFET

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

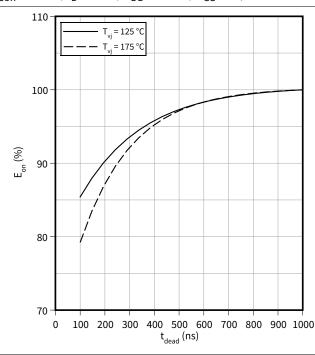
 $R_{Goff}$  = 0.51  $\Omega,$   $V_{DD}$  = 600 V,  $R_{Gon}$  = 6.2  $\Omega,$   $V_{GS(on)}$  = 18 V,  $I_D$  = 75 A,  $R_{Gon,o}$  = 2.7  $\Omega,$   $T_{vj}$  = 175 °C



#### Switching losses (typical), MOSFET

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

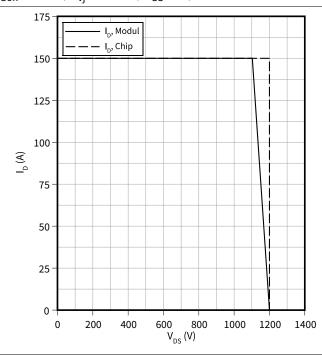
 $R_{Gon} = 6.2 \Omega$ ,  $I_D = 75 A$ ,  $V_{DD} = 600 V$ ,  $V_{GS} = -3/18 V$ 



# Reverse bias safe operating area (RBSOA), MOSFET

 $I_D = f(V_{DS})$ 

 $R_{Goff} = 3.9 \Omega$ ,  $T_{vj} = 150 \,^{\circ}$ C,  $V_{GS} = -3/18 \,^{\circ}$ V



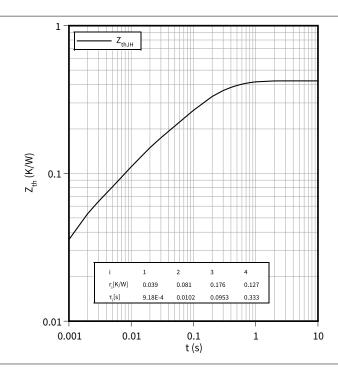
#### EasyPACK™ module

5 Characteristics diagrams



### Transient thermal impedance, MOSFET

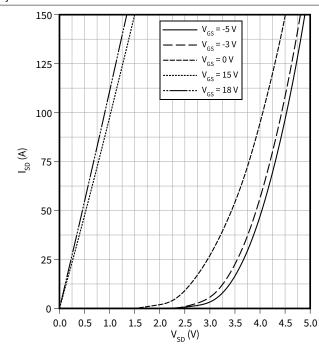
$$Z_{th} = f(t)$$



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

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

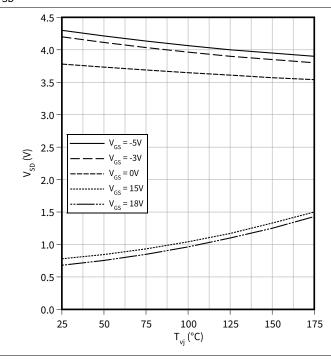
$$T_{vj} = 25 \, ^{\circ}C$$



# Forward voltage of body diode (typical), MOSFET

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

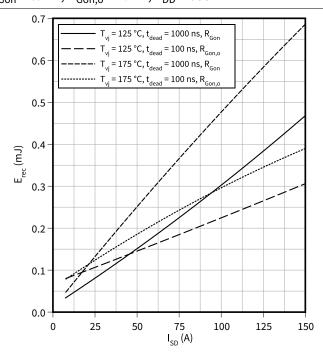
$$I_{SD} = 75 A$$



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

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

$$R_{Gon} = 6.2 \Omega$$
,  $R_{Gon,o} = 2.7 \Omega$ ,  $V_{DD} = 600 V$ 



#### EasyPACK™ module

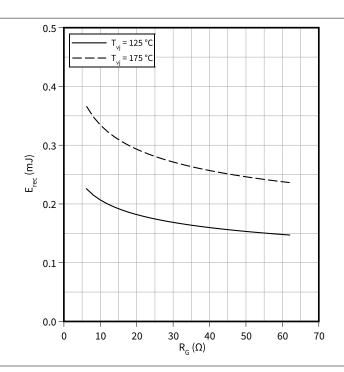
5 Characteristics diagrams



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

 $E_{rec} = f(R_G)$ 

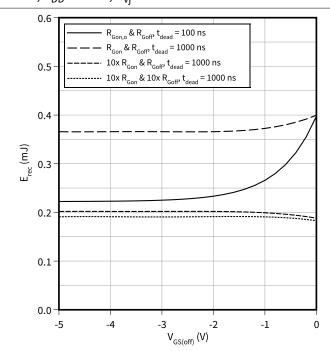
 $t_{dead}$  = 1000 ns,  $I_{SD}$  = 75 A,  $V_{DD}$  = 600 V



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

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

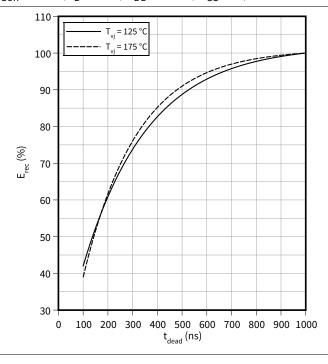
 $R_{Goff} = 0.51 \Omega$ ,  $R_{Gon} = 6.2 \Omega$ ,  $V_{GS(on)} = 18 V$ ,  $I_{SD} = 75 A$ ,  $R_{Gon,o} = 2.7 \Omega$ ,  $V_{DD} = 600 V$ ,  $T_{vj} = 175 ^{\circ}C$ 



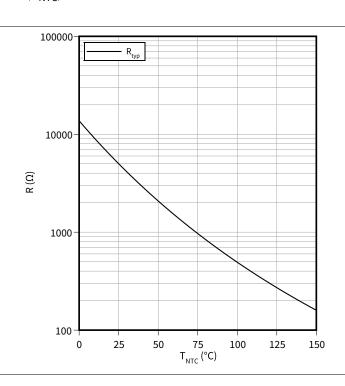
#### Switching losses body diode (typical), MOSFET

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

 $R_{Gon} = 6.2 \Omega$ ,  $I_D = 75 A$ ,  $V_{DD} = 600 V$ ,  $V_{GS} = -3/18 V$ 



# Temperature characteristic (typical), NTC-Thermistor $R = f(T_{NTC})$



6 Circuit diagram



# 6 Circuit diagram

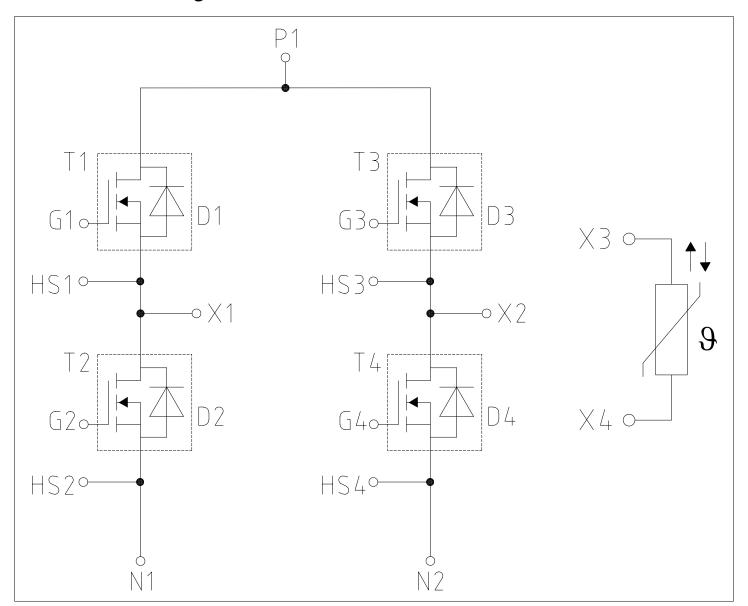
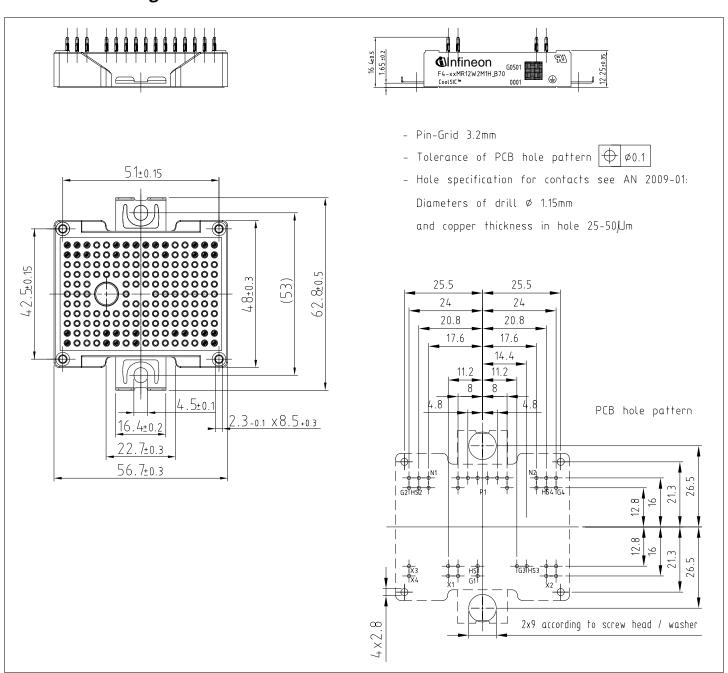


Figure 1

7 Package outlines



# 7 Package outlines



15

Figure 2

### **EasyPACK™ module**

8 Module label code



# 8 Module label code

Cadafarmat	Data Matrix		Daysond - C	`ada120
Code format	Data Matrix		Barcode C	Jode128
Encoding	ASCII text		Code Set /	A
Symbol size	16x16		23 digits	
Standard	IEC24720 and IEC16022		IEC8859-1	
Code content	Content	Digit		Example
	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	BOOK FOR Y			

Figure 3

### **EasyPACK™ module**

Revision history



# **Revision history**

Document version	Date of release	Description of changes
0.10	2022-08-03	Initial version
0.20	2023-06-09	Preliminary datasheet
1.00	2025-04-17	Final datasheet

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