

Preliminary datasheet EasyPACK[™] module with CoolSiC[™] Trench MOSFET and PressFIT / NTC

Features

- · Electrical features
 - V_{DSS} = 1200 V
 - $I_{DN} = 25 \text{ A} / I_{DRM} = 50 \text{ A}$
 - High current density
 - Low inductive design
- Mechanical features
 - PressFIT contact technology
 - Integrated NTC temperature sensor
 - Rugged mounting due to integrated mounting clamps

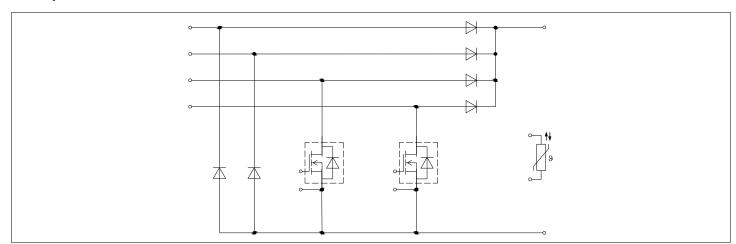
Potential applications

• Solar applications

Product validation

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

Description





DF16MR12W1M1HF_B67 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 _{ISOL}	RMS, f = 50 Hz, t = 1 min	3.0	kV
Internal isolation		basic insulation (class 1, IEC 61140)	Al ₂ O ₃	
Creepage distance	d_{Creep}	terminal to heatsink	11.5	mm
Creepage distance	d_{Creep}	terminal to terminal	6.3	mm
Clearance	d_{Clear}	terminal to heatsink	10.0	mm
Clearance	d_{Clear}	terminal to terminal	5.0	mm
Comparative tracking index	СТІ		> 200	
Relative thermal index (electrical)	RTI	housing	140	°C

Table 2 Characteristic values

Parameter	Symbol	Note or test condition		Values		
			Min.	Тур.	Max.	
Stray inductance module	L _{sCE}			10		nH
Module lead resistance, terminals - chip	R _{AA'+CC'}	T _H = 25 °C, per switch		3.2		mΩ
Module lead resistance, terminals - chip	R _{CC'+EE'}	T _H = 25 °C, per switch		3.2		mΩ
Storage temperature	$T_{\rm stg}$		-40		125	°C
Mounting force per clamp	F		20		50	N
Weight	G			24		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 °C	1200	V
Continuous DC drain current	I _{DDC}	$T_{\rm vj}$ = 175 °C, $V_{\rm GS}$ = 18 V	T _H = 70 °C	25	А
Repetitive peak drain current	/ _{DRM}	verified by design, t _p lim	nited by T _{vjmax}	50	А
Gate-source voltage, max. transient voltage	V_{GS}	D < 0.01		-10/23	V

(table continues...)

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Table 3 (continued) Maximum rated values

Parameter	Symbol	Note or test condition	Values	Unit
Gate-source voltage, max.	V_{GS}		-7/20	V
static voltage				

Table 4 Recommended values

Parameter	Symbol	Note or test condition	Values	Unit
On-state gate voltage	V _{GS(on)}		1518	V
Off-state gate voltage	V _{GS(off)}		-50	V

Table 5 Characteristic values

Parameter	Symbol	Note or test condition			Values		Unit
				Min.	Тур.	Max.	
Drain-source on-resistance	R _{DS(on)}	I _D = 25 A	$V_{\rm GS} = 18 \text{ V},$ $T_{\rm vj} = 25 ^{\circ}\text{C}$		32.3		mΩ
			$V_{\rm GS} = 18 \text{ V},$ $T_{\rm vj} = 125 ^{\circ}\text{C}$		52.2		
			$V_{\rm GS} = 18 \text{ V},$ $T_{\rm vj} = 175 ^{\circ}\text{C}$		69.4		
			$V_{\rm GS} = 15 \text{ V},$ $T_{\rm vj} = 25 ^{\circ}\text{C}$		38.8		
Gate threshold voltage	V _{GS(th)}	$I_D = 10 \text{ mA}, V_{DS} = V_{GS}, T_{vj} = 1 \text{ms pulse at } V_{GS} = +20 \text{ V})$	= 25 °C, (tested after	3.45	4.3	5.15	V
Total gate charge	Q _G	$V_{\rm DD}$ = 800 V, $V_{\rm GS}$ = -3/18 V			0.074		μC
Internal gate resistor	R _{Gint}	T _{vj} = 25 °C			8.2		Ω
Input capacitance	C _{ISS}	$f = 100 \text{ kHz}, V_{DS} = 800 \text{ V},$ $V_{GS} = 0 \text{ V}$	T _{vj} = 25 °C		2.2		nF
Output capacitance	Coss	$f = 100 \text{ kHz}, V_{DS} = 800 \text{ V},$ $V_{GS} = 0 \text{ V}$	T _{vj} = 25 °C		0.105		nF
Reverse transfer capacitance	C _{rss}	$f = 100 \text{ kHz}, V_{DS} = 800 \text{ V},$ $V_{GS} = 0 \text{ V}$	T _{vj} = 25 °C		0.007		nF
C _{OSS} stored energy	Eoss	$V_{\rm DS}$ = 800 V, $V_{\rm GS}$ = -3/18 V,	T _{vj} = 25 °C		43		μJ
Drain-source leakage current	I _{DSS}	$V_{\rm DS}$ = 1200 V, $V_{\rm GS}$ = -3 V	T _{vj} = 25 °C		0.015	120	μA
Gate-source leakage current	I _{GSS}	$V_{\rm DS} = 0 \text{ V}, T_{\rm vj} = 25 ^{\circ}\text{C}$	V _{GS} = 20 V			400	nA
Turn-on delay time	t _{d on}	$I_{\rm D} = 25 \text{A}, R_{\rm Gon} = 5.6 \Omega,$	T _{vj} = 25 °C		32		ns
(inductive load)		T _{vj} = 125 °C		32			
			T _{vi} = 175 °C		32		

(table continues...)

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3 Body diode



Table 5 (continued) Characteristic values

Parameter	Symbol	Note or test condition			Values		Unit
				Min.	Тур.	Max.	
Rise time (inductive load)	t _r	$I_{\rm D} = 25 \text{A}, R_{\rm Gon} = 5.6 \Omega,$	T _{vj} = 25 °C		26		ns
		$V_{\rm DD} = 600 \text{ V}, V_{\rm GS} = -3/18 \text{ V}$	T _{vj} = 125 °C		26		
			T _{vj} = 175 °C		26		
Turn-off delay time	t _{d off}	$I_{\rm D} = 25 \text{A}, R_{\rm Goff} = 1.5 \Omega,$	<i>T</i> _{vj} = 25 °C		48		ns
(inductive load)		$V_{\rm DD} = 600 \text{ V}, V_{\rm GS} = -3/18 \text{ V}$	T _{vj} = 125 °C		53		
			T _{vj} = 175 °C		55		
Fall time (inductive load)	t _f	$V_{\rm DD} = 600 \text{ V}, V_{\rm GS} = -3/18 \text{ V}$	<i>T</i> _{vj} = 25 °C		11		ns
			T _{vj} = 125 °C		11		
			T _{vj} = 175 °C		11		
Turn-on energy loss per	E _{on}	$I_D = 25 \text{ A}, V_{DD} = 600 \text{ V},$ $L_{\sigma} = 35 \text{ nH}, V_{GS} = -3/18 \text{ V},$ $R_{Gon} = 5.6 \Omega, \text{ di/dt} = 2.3$	<i>T</i> _{vj} = 25 °C		0.297		mJ
pulse			T _{vj} = 125 °C		0.297		
		$kA/\mu s (T_{vj} = 175 °C)$	T _{vj} = 175 °C		0.297		
Turn-off energy loss per	E _{off}	$I_{\rm D}$ = 25 A, $V_{\rm DD}$ = 600 V,	T _{vj} = 25 °C		0.057		mJ
pulse		$L_{\sigma} = 35 \text{ nH}, V_{GS} = -3/18 \text{ V},$ $R_{Goff} = 1.5 \Omega, \text{ dv/dt} = 43.6$	T _{vj} = 125 °C		0.057		
		$\kappa_{\text{Goff}} = 1.3 \Omega, \text{ av/at} = 43.0 =$	T _{vj} = 175 °C		0.057		
Thermal resistance, junction to heat sink	R _{thJH}	per MOSFET			1.85		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 AN2021-13 must be considered to ensure sound operation of the device over the planned lifetime.

 $T_{\rm vj,op}$ > 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

Table 6 Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
DC body diode forward	I _{SD}	$T_{\rm vj}$ = 175 °C, $V_{\rm GS}$ = -3 V	T _H = 70 °C	13	Α
current					

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4 Diode, Boost



Table 7 Characteristic values

Parameter	Symbol	Note or test condition		Values			Unit
				Min.	Тур.	Max.	
Forward voltage	V_{SD}	$I_{SD} = 25 \text{ A}, V_{GS} = -3 \text{ V}$	T _{vj} = 25 °C		4.2	5.35	V
			T _{vj} = 125 °C		3.9		
			T _{vj} = 175 °C		3.8		

4 Diode, Boost

Table 8 Maximum rated values

Parameter	Symbol Note or test condition		Values	Unit	
Repetitive peak reverse voltage	V_{RRM}		T _{vj} = 25 °C	1200	V
Implemented forward current	I _{FN}			20	А
Continuous DC forward current	/ _F			25	А
Repetitive peak forward current	I _{FRM}	t _P = 1 ms		40	А
I ² t - value	I ² t	$t_{\rm P}$ = 10 ms, $V_{\rm R}$ = 0 V	T _{vj} = 25 °C	193	A ² s
			T _{vj} = 125 °C	169	
			T _{vj} = 150 °C	165	

Table 9 Characteristic values

Parameter	Symbol	Note or test condition	1		Values		Unit
				Min.	Тур.	Max.	
Forward voltage	V _F	$I_{\rm F} = 25 \text{ A}, V_{\rm GE} = 0 \text{ V}$	T _{vj} = 25 °C		1.55	2.05	V
			<i>T</i> _{vj} = 125 °C		1.95		
			T _{vj} = 150 °C		2.10		
Peak reverse recovery current	I _{RM}	$V_{\rm CC} = 600 \text{ V}, I_{\rm F} = 25 \text{ A},$	T _{vj} = 25 °C		21		А
		-di _F /dt = 2300 A/μs (T _{vi} = 150 °C)	T _{vj} = 125 °C		21		
		(1 _{0j} = 130 C)	T _{vj} = 150 °C		21		
Recovered charge	Q _r	$V_{\rm CC}$ = 600 V, $I_{\rm F}$ = 25 A,	T _{vj} = 25 °C		0.21		μC
		-di _F /dt = 2300 A/μs (T _{vi} = 150 °C)	T _{vj} = 125 °C		0.21		
		(1 _{0j} = 130 C)	T _{vj} = 150 °C		0.21		
Reverse recovery energy	E _{rec}	$V_{\rm CC}$ = 600 V, $I_{\rm F}$ = 25 A,	T _{vj} = 25 °C		0.03		mJ
		$-di_F/dt = 2300 A/\mu s$	T _{vj} = 125 °C		0.03		
		(T _{vj} = 150 °C)	T _{vj} = 150 °C		0.03		

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5 Bypass-diode A



Table 9 (continued) Characteristic values

Parameter	Symbol	Note or test condition Values			Unit	
			Min.	Тур.	Max.	
Thermal resistance, junction to heat sink	R _{thJH}	per diode		1.75		K/W
Temperature under switching conditions	T _{vj op}		-40		150	°C

5 Bypass-diode A

Table 10 Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Repetitive peak reverse voltage	V_{RRM}		T _{vj} = 25 °C	1200	V
Maximum RMS forward current per chip	/ _{FRMSM}	T _H = 50 °C		50	А
Maximum RMS current at rectifier output	I _{RMSM}	T _H = 50 °C		50	А
Surge forward current	I _{FSM}	t _P = 10 ms	T _{vj} = 25 °C	450	А
			T _{vj} = 150 °C	360	
I ² t - value	I ² t	t _P = 10 ms	T _{vj} = 25 °C	1010	A ² s
			T _{vj} = 150 °C	648	

Table 11 Characteristic values

Parameter	Symbol	Note or test condition			Values		V mA
				Min.	Тур.	Max.	
Forward voltage	V _F	I _F = 25 A	T _{vj} = 150 °C		0.90		V
Reverse current	I _r	$T_{\rm vj}$ = 150 °C, $V_{\rm R}$ = 1200 V			0.1		mA
Thermal resistance, junction to heat sink	R _{thJH}	per diode			1.38		K/W
Temperature under switching conditions	T _{vj, op}			-40		150	°C

6 Bypass-diode B

Table 12 Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Repetitive peak reverse voltage	V_{RRM}		<i>T</i> _{vj} = 25 °C	1200	V

(table continues...)

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7 Inverse-polarity protection diode A



Table 12 (continued) Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Maximum RMS forward current per chip	/ _{FRMSM}	T _H = 100 °C		25	А
Maximum RMS current at rectifier output	I _{RMSM}	T _H = 100 °C		25	А
Surge forward current	I _{FSM}	t _P = 10 ms	T _{vj} = 25 °C	450	Α
			T _{vj} = 150 °C	360	
I ² t - value I ²		t _P = 10 ms	T _{vj} = 25 °C	1010	A ² s
			T _{vj} = 150 °C	648	

Table 13 Characteristic values

Parameter	Symbol	Note or test condition			Values		Unit
				Min.	Тур.	Max.	
Forward voltage	V_{F}	I _F = 25 A	T _{vj} = 150 °C		0.90		V
Reverse current	I _r	$T_{\rm vj}$ = 150 °C, $V_{\rm R}$ = 1200 V			0.1		mA
Thermal resistance, junction to heat sink	R _{thJH}	per diode			1.38		K/W
Temperature under switching conditions	T _{vj, op}			-40		150	°C

7 Inverse-polarity protection diode A

Table 14 Maximum rated values

Parameter	Symbol	Note or test condition	Values	Unit	
Repetitive peak reverse voltage	V_{RRM}		T _{vj} = 25 °C	1200	V
Maximum RMS forward current per chip	I _{FRMSM}	T _H = 50 °C		50	А
Maximum RMS current at rectifier output	I _{RMSM}	T _H = 50 °C		50	А
Surge forward current	/ _{FSM}	t _P = 10 ms	T _{vj} = 25 °C	450	А
			T _{vj} = 150 °C	360	
I ² t - value	I ² t	t _P = 10 ms	T _{vj} = 25 °C	1010	A ² s
			T _{vj} = 150 °C	648	

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8 Inverse-polarity protection diode B



Table 15 Characteristic values

Parameter	Symbol	Note or test condi	tion		Values		V mA K/W
				Min.	Тур.	Max.	
Forward voltage	V _F	I _F = 50 A	T _{vj} = 150 °C		1.10		V
Reverse current	I _r	$T_{\rm vj} = 150 ^{\circ}{\rm C}, V_{\rm R} = 120 ^{\circ}{\rm C}$	00 V		0.1		mA
Thermal resistance, junction to heat sink	R _{thJH}	per diode			1.38		K/W
Temperature under switching conditions	$T_{\rm vj,op}$			-40		150	°C

8 Inverse-polarity protection diode B

Table 16 Maximum rated values

Parameter	Symbol	Note or test condition		Values	Unit
Repetitive peak reverse voltage	V_{RRM}		T _{vj} = 25 °C	1200	V
Maximum RMS forward current per chip	/ _{FRMSM}	T _H = 100 °C		25	А
Maximum RMS current at rectifier output	I _{RMSM}	T _H = 100 °C		25	А
Surge forward current	I _{FSM}	t _P = 10 ms	T _{vj} = 25 °C	450	А
			T _{vj} = 150 °C	360	
I ² t - value	I ² t	t _P = 10 ms	T _{vj} = 25 °C	1010	A ² s
			T _{vj} = 150 °C	648	

Table 17 Characteristic values

Parameter	Symbol	Note or test condition	1		Values		Unit
				Min.	Тур.	Max.	V mA
Forward voltage	V _F	I _F = 25 A	T _{vj} = 150 °C		0.90		V
Reverse current	I _r	$T_{\rm vj}$ = 150 °C, $V_{\rm R}$ = 1200 \	/		0.1		mA
Thermal resistance, junction to heat sink	R _{thJH}	per diode			1.38		K/W
Temperature under switching conditions	T _{vj, op}			-40		150	°C

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9 NTC-Thermistor



9 NTC-Thermistor

Table 18 Characteristic values

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Тур.	Max.	
Rated resistance	R ₂₅	T _{NTC} = 25 °C		5		kΩ
Deviation of R ₁₀₀	∆R/R	$T_{\rm NTC} = 100 {}^{\circ}{\rm C}$, $R_{100} = 493 \Omega$	-5		5	%
Power dissipation	P ₂₅	T _{NTC} = 25 °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: Specification according to the valid application note.

10 Characteristics diagrams

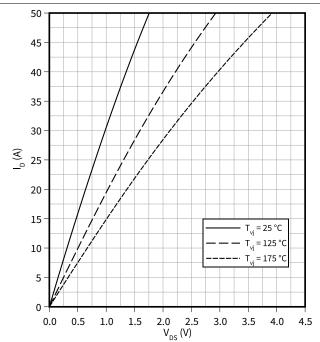


10 Characteristics diagrams

Output characteristic (typical), MOSFET

 $I_D = f(V_{DS})$

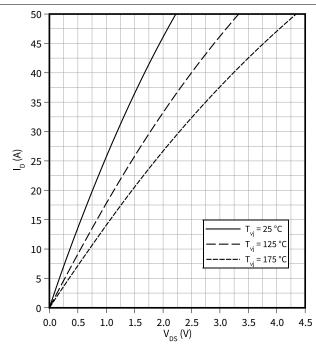
 $V_{GS} = 18 V$



Output characteristic (typical), MOSFET

 $I_D = f(V_{DS})$

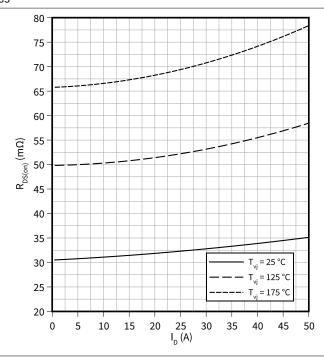
 $V_{GS} = 15 V$



Drain source on-resistance (typical), MOSFET

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

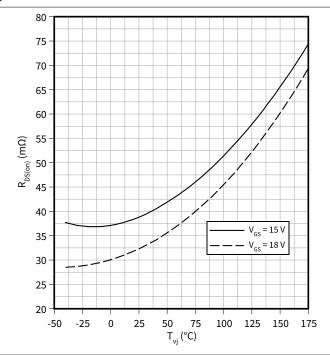
 $V_{GS} = 18 V$



Drain source on-resistance (typical), MOSFET

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

 $I_D = 25 A$



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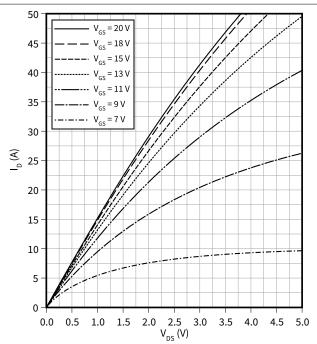
10 Characteristics diagrams



Output characteristic field (typical), MOSFET

 $I_D = f(V_{DS})$

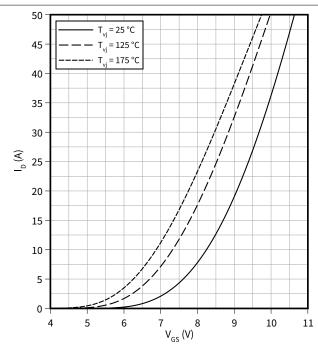
 $T_{vj} = 175$ °C



Transfer characteristic (typical), MOSFET

 $I_D = f(V_{GS})$

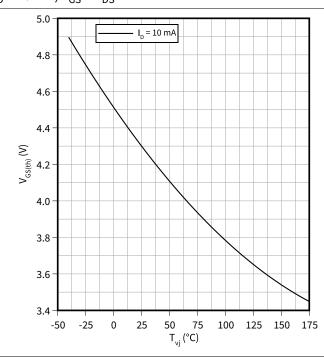
 $V_{DS} = 20 V$



Gate-source threshold voltage (typical), MOSFET

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

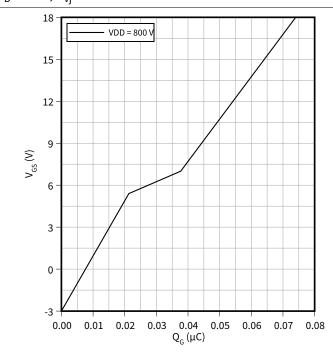
 $I_D = 10 \text{ mA}, V_{GS} = V_{DS}$



Gate charge characteristic (typical), MOSFET

 $V_{GS} = f(Q_G)$

 I_D = 25 A, T_{vj} = 25 °C



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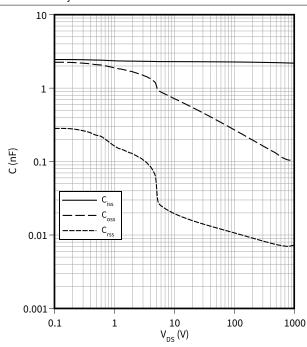
10 Characteristics diagrams



Capacity characteristic (typical), MOSFET

 $C = f(V_{DS})$

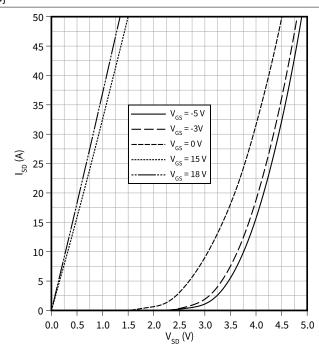
f = 100 kHz, $T_{vj} = 25 \,^{\circ}\text{C}$, $V_{GS} = 0 \,^{\circ}\text{V}$



Forward characteristic body diode (typical), MOSFET

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

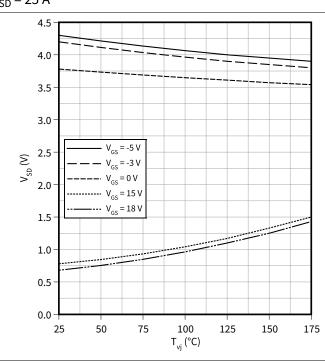
 T_{vj} = 25 °C



Forward voltage of body diode (typical), MOSFET

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

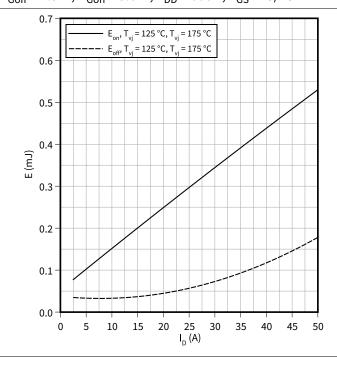
 $I_{SD} = 25 \text{ A}$



Switching losses (typical), MOSFET

 $E = f(I_D)$

 $R_{Goff} = 1.5 \Omega$, $R_{Gon} = 5.6 \Omega$, $V_{DD} = 600 V$, $V_{GS} = -3/18 V$



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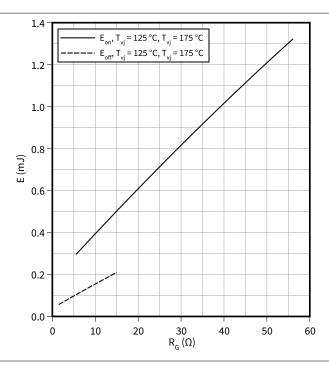
10 Characteristics diagrams



Switching losses (typical), MOSFET

 $E = f(R_G)$

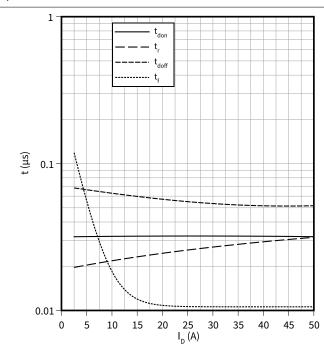
$$V_{DD} = 600 \text{ V}, I_D = 25 \text{ A}, V_{GS} = -3/18 \text{ V}$$



Switching times (typical), MOSFET

 $t = f(I_D)$

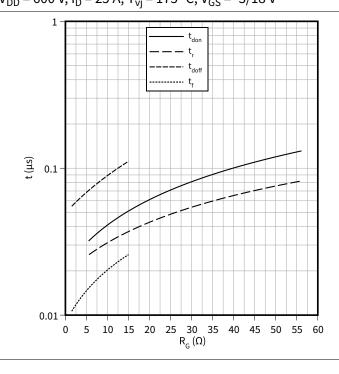
 R_{Goff} = 1.5 $\Omega,\,R_{Gon}$ = 5.6 $\Omega,\,V_{DD}$ = 600 V, T_{vj} = 175 °C, V_{GS} = -3/18 V



Switching times (typical), MOSFET

 $t = f(R_G)$

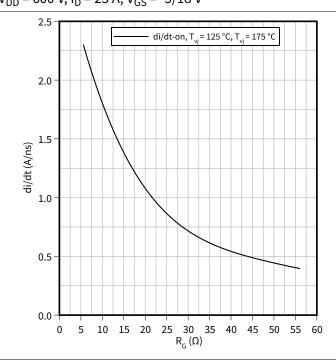
$$V_{DD}$$
 = 600 V, I_{D} = 25 A, T_{vj} = 175 °C, V_{GS} = -3/18 V



Current slope (typical), MOSFET

 $di/dt = f(R_G)$

 V_{DD} = 600 V, I_{D} = 25 A, V_{GS} = -3/18 V



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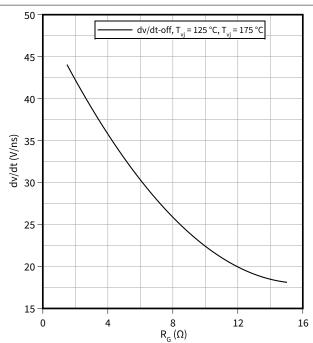
10 Characteristics diagrams



Voltage slope (typical), MOSFET

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

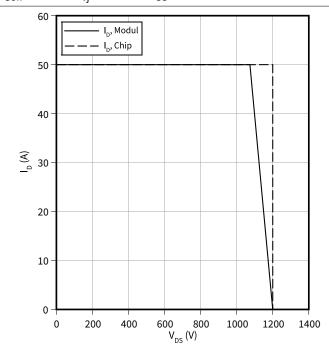
$$V_{DD} = 600 \text{ V}, I_D = 25 \text{ A}, V_{GS} = -3/18 \text{ V}$$



Reverse bias safe operating area (RBSOA), MOSFET

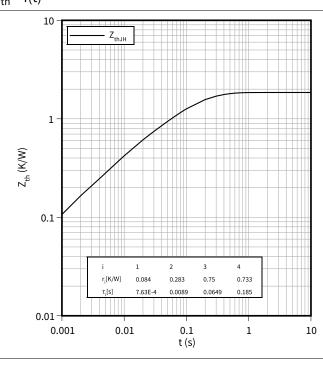
$$I_D = f(V_{DS})$$

$$R_{Goff} = 1.5 \Omega$$
, $T_{vj} = 175 \,^{\circ}\text{C}$, $V_{GS} = -3/18 \,^{\circ}\text{V}$



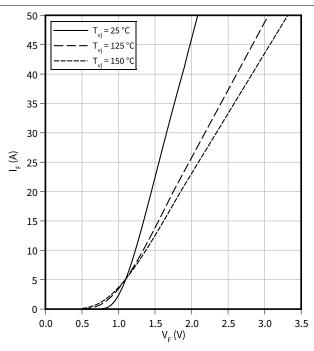
Transient thermal impedance, MOSFET

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



Forward characteristic (typical), Diode, Boost

$$I_F = f(V_F)$$



EasyPACK[™] module

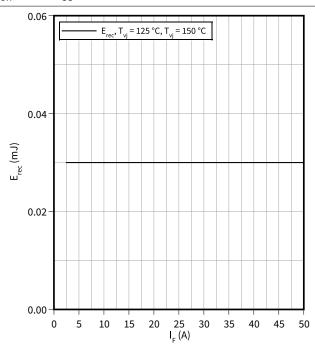
10 Characteristics diagrams



Switching losses (typical), Diode, Boost

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

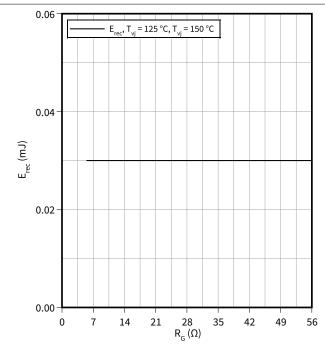
$$R_{Gon} = 5.6$$
, $V_{CC} = 600 V$



Switching losses (typical), Diode, Boost

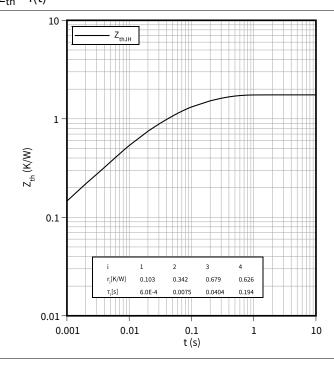
$$E_{rec} = f(R_G)$$

$$I_F = 25 A, V_{CC} = 600 V$$



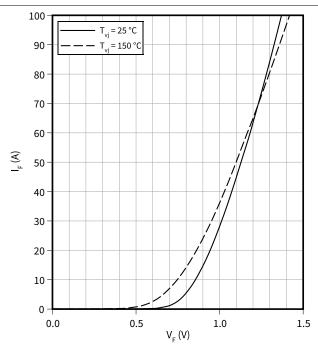
Transient thermal impedance, Diode, Boost

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



Forward characteristic (typical), Bypass-diode A

$$I_F = f(V_F)$$

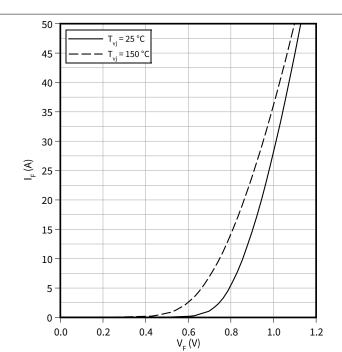


EasyPACK[™] module

10 Characteristics diagrams

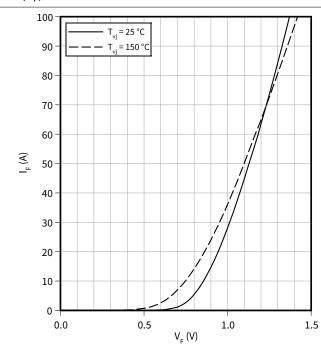


Forward characteristic (typical), Bypass-diode B $I_F = f(V_F)$



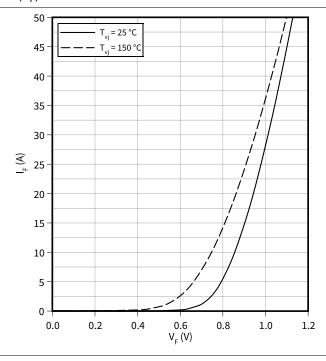
Forward characteristic (typical), Inverse-polarity protection diode A

 $I_F = f(V_F)$

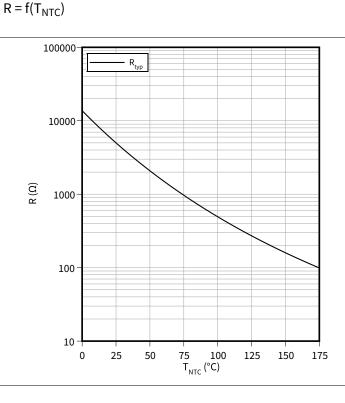


Forward characteristic (typical), Inverse-polarity protection diode B





Temperature characteristic (typical), NTC-Thermistor



11 Circuit diagram



11 Circuit diagram

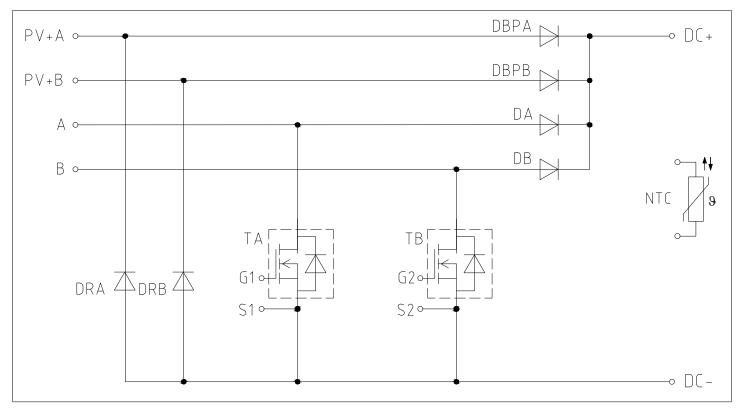


Figure 1

12 Package outlines



12 Package outlines

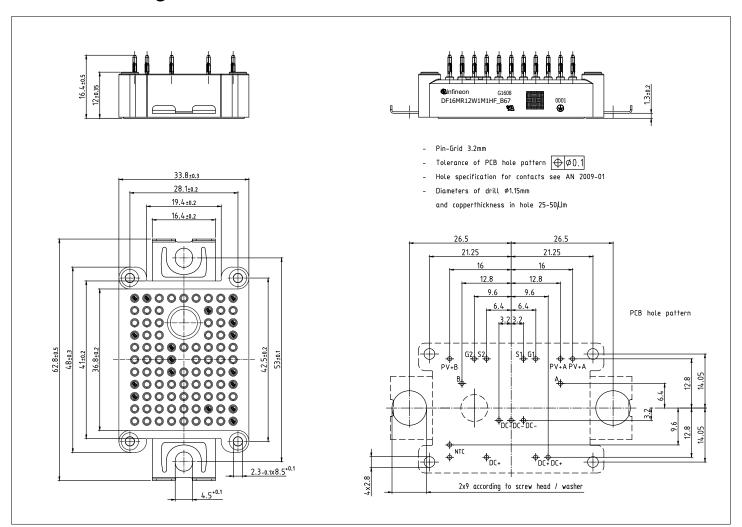


Figure 2

EasyPACK[™] module

13 Module label code



13 Module label code

Code format	Data Matrix		Barcode C	Code128
Encoding	ASCII text		Code Set	Ą
Symbol size	16x16		23 digits	
Standard	IEC24720 and IEC16022		IEC8859-1	
Code content	Content Module serial number Module material number Production order number Date code (production year) Date code (production week)	Module serial number 1 - 5 Module material number 6 - 11 Production order number 12 - 19 Date code (production year) 20 - 21		Example 71549 142846 55054991 15 30
Example	71549142846550549911530			6550549911530

Figure 3

EasyPACK[™] module





Revision history

Document version	Date of release	Description of changes
0.10	2022-12-05	Initial version

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