

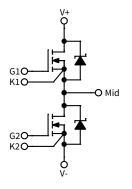
1200 V, 175 A, Silicon Carbide, Half-Bridge Module

$V_{_{\mathrm{DS}}}$	1200 V
I _{DS}	175 A

Technical Features

- Industry Standard 62mm Footprint
- Ultra Low Loss, High-Frequency Operation
- Zero Reverse Recovery from Diodes
- Zero Turn-off Tail Current from MOSFET
- Normally-off, Fail-safe Device Operation
- Copper Baseplate and Aluminum Nitride Insulator





Applications

- Induction Heating
- Motor Drives
- Renewables
- Railway Auxiliary & Traction
- EV Fast Charging
- UPS and SMPS

System Benefits

- 62mm Form Factor Enables System Retrofit
- Increased System Efficiency, due to Low Switching & Conduction Losses of SiC

Maximum Parameters (Verified by Design)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions	Note	
Drain-Source Voltage	V _{DS}			1200				
Gate-Source Voltage, Maximum Value	V _{GS max}	-8		+19	V	Transient, <100 ns	Fi 22	
Gate-Source Voltage, Recommended	V _{GS op}	-4		+15		Static	Fig. 33	
DC Continuous Drain Current			228			$V_{GS} = 15 \text{ V}, T_C = 25 \text{ °C}, T_{VJ} \le 175 \text{ °C}$	F:- 21	
	I _D		175			$V_{GS} = 15 \text{ V}, T_C = 90 \text{ °C}, T_{VJ} \le 175 \text{ °C}$	Fig. 21	
			236		A	$V_{GS} = -4 \text{ V}, \ T_C = 25 \text{ °C}, T_{VJ} \le 175 \text{ °C}$		
DC Source-Drain Current (Diode)	I _{SD}		169			$V_{GS} = -4 \text{ V}, \ T_C = 90 \text{ °C}, T_{VJ} \le 175 \text{ °C}$		
Pulsed Drain Current	I _{D (pulsed)}			350		$t_{P_{max}}$ limited by T_{VJmax} $V_{GS} = 15 \text{ V}, \ T_C = 25 ^{\circ}\text{C}$		
Virtual Junction Temperature	т	-40		150	°C	Operation		
viituat Junction Temperature	T _{VJ op}	-40		175		Intermittent with Reduced Life		

MOSFET Characteristics (Per Position) (T_{vJ} = 25 °C unless otherwise specified)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions	Note	
Drain-Source Breakdown Voltage	V _{(BR)DSS}	1200				$V_{GS} = 0 \text{ V, T}_{VJ} = -40 \text{ °C}$		
Cata Thurshald Walter		1.8	2.5	3.6	V	$V_{DS} = V_{GS}$, $I_D = 43 \text{ mA}$		
Gate Threshold Voltage	$V_{GS(th)}$		2.0			$V_{DS} = V_{GS}$, $I_D = 43$ mA, $T_{VJ} = 175$ °C		
Zero Gate Voltage Drain Current	I _{DSS}		4.1	564	μΑ	V _{GS} = 0 V, V _{DS} = 1200 V		
Gate-Source Leakage Current	I _{GSS}		20	200	nA	V _{GS} = 15 V, V _{DS} = 0 V		
Drain-Source On-State Resistance			8.0	10.4		$V_{GS} = 15 \text{ V}, I_D = 175 \text{ A}$	Fig. 2	
(Devices Only)	R _{DS(on)}		12.9		mΩ	$V_{GS} = 15 \text{ V}, I_D = 175 \text{ A}, T_{VJ} = 150 \text{ °C}$	Fig. 3	
			156			$V_{DS} = 20 \text{ V}, I_{D} = 175 \text{ A}$		
Transconductance	g fs		146		S	$V_{DS} = 20 \text{ V}, I_{D} = 175 \text{ A}, T_{VJ} = 150 \text{ °C}$	Fig. 4	
Turn-On Switching Energy, T_{VJ} = 25 °C T_{VJ} = 125 °C T_{VJ} = 150 °C	Eon		2.7 2.5 2.4			$V_{DD} = 600 \text{ V},$ $I_D = 175 \text{ A},$ $V_{GS} = -4 \text{ V}/15 \text{ V},$ $R_{G(OFF)} = 0.0 \Omega, R_{G(ON)} = 0.0 \Omega,$ $L = 42 \mu\text{H}$	Fig. 11 Fig. 13	
Turn-Off Switching Energy, $T_{VJ} = 25 ^{\circ}\text{C}$ $T_{VJ} = 125 ^{\circ}\text{C}$ $T_{VJ} = 150 ^{\circ}\text{C}$	E _{Off}		1.9 2.0 2.0		mJ			
Internal Gate Resistance	R _{G(int)}		5.05		Ω	f = 100 kHz, V _{AC} = 25 mV		
Input Capacitance	C _{iss}		12.9		nF			
Output Capacitance	C _{oss}		942		_	$V_{GS} = 0 \text{ V}, V_{DS} = 800 \text{ V},$ $V_{AC} = 25 \text{ mV}, f = 100 \text{ kHz}$	Fig. 9	
Reverse Transfer Capacitance	C _{rss}		26.4		pF	VAC 25 IIIV, I 100 KII2		
Gate to Source Charge	Q _{GS}		134			$V_{DS} = 800 \text{ V}, V_{GS} = -4 \text{ V}/15 \text{ V},$		
Gate to Drain Charge	$Q_{\sf GD}$		122		nC	$I_D = 175 \text{ A},$		
Total Gate Charge	Q _G		422			Per IEC60747-8-4 pg 21		
FET Thermal Resistance, Junction to Case	R _{th JC}		0.190		°C/W		Fig. 17	

Diode Characteristics (Per Position) (T_{VJ} = 25 °C unless otherwise specified)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions	Notes
Diada Famuard Valtage	V _F		1.8		V	V _{GS} = -4 V, I _F = 175 A, T _{VJ} = 25 °C	F:~ 7
Diode Forward Voltage			2.3			V _{GS} = -4 V, I _F = 175 A, T _{VJ} = 150 °C	− Fig. 7
Reverse Recovery Time	t _{rr}		20.8		ns		Fig. 32
Reverse Recovery Charge	Q _{rr}		1.8		μС	$V_{GS} = -4 \text{ V}, I_{SD} = 175 \text{ A}, V_{R} = 800 \text{ V}$ $di/dt = 6.9 \text{ A/ns}, T_{VJ} = 150 ^{\circ}\text{C}$	
Peak Reverse Recovery Current	I _{rrm}		143		А	1 di/dt = 0.5 A/113, 1 1/1 = 150 C	
Reverse Recovery Energy, T_{VJ} = 25 °C T_{VJ} = 125 °C T_{VJ} = 150 °C	E _{rr}		0.5 0.6 0.6		mJ	$V_{DS} = 600 \text{ V}, \ I_D = 175 \text{ A}, \ V_{GS} = -4 \text{ V}/15 \text{ V}, \ R_{G(ext)} = 0.0 \ \Omega, \ L = 42 \ \mu H$	Fig. 14 Note 1
Diode Thermal Resistance, JCT. to Case	R _{th JC}		0.216		°C/W		Fig. 18

¹SiC Schottky diodes do not have reverse recovery energy but still contribute capacitive energy.

Module Physical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions
Dankara Dariatara AMA (High Cida)	Ь		2.30			$T_c = 25 ^{\circ}\text{C}$, $I_{SD} = 175 \text{A}$, Note 2
Package Resistance, M1 (High-Side)	R ₃₋₁		3.22			T _C = 125 °C, I _{SD} = 175 A, Note 2
Package Peristance M2 (Low Side)	D		2.12		mΩ	$T_c = 25 ^{\circ}\text{C}, I_{SD} = 175 \text{A}, \text{Note 2}$
Package Resistance, M2 (Low-Side)	R ₁₋₂		2.97			$T_c = 125 ^{\circ}\text{C}, I_{SD} = 175 \text{A}, \text{ Note 2}$
Stray Inductance	L _{Stray}		11.1		nH	Between DC- and DC+, f = 10 MHz
Case Temperature	T _c	-40		125	°C	
Mounting Torque	M	4	5	5.5	N-m	Baseplate, M6-1.0 bolts
Mounting Torque	Ms	4	5	5.5		Power Terminals, M6-1.0 bolts
Weight	W		300		g	
Case Isolation Voltage	V _{isol}	5			kV	AC, 50 Hz, 1 minute
Classica Distance		9				Terminal to Terminal
Clearance Distance		30				Terminal to Baseplate
Cracina de Distance		30			mm	Terminal to Terminal
Creepage Distance		40				Terminal to Baseplate

Note:

² Total Effective Resistance (Per Switch Position) = MOSFET R_{DS(on)} + Switch Position Package Resistance

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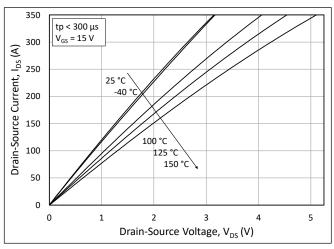


Figure 1. Output Characteristics for Various Junction Temperatures

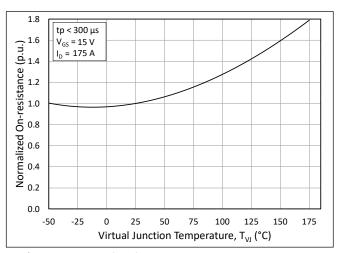


Figure 3. Normalized On-State Resistance vs. Junction Temperature

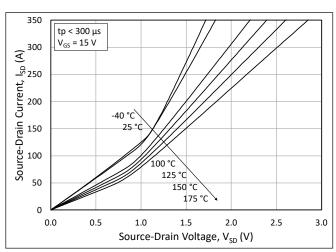


Figure 5. 3^{rd} Quadrant Characteristic vs. Junction Temperatures at $V_{GS} = 15 \text{ V}$

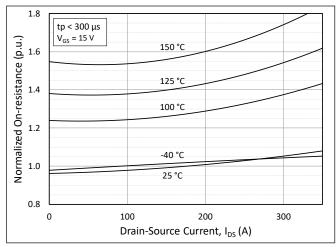


Figure 2. Normalized On-State Resistance vs. Drain Current for Various Junction Temperatures

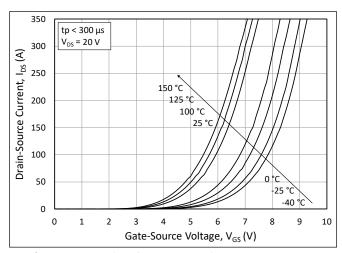


Figure 4. Transfer Characteristic for Various Junction Temperatures

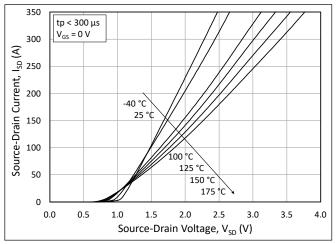


Figure 6. 3^{rd} Quadrant Characteristic vs. Junction Temperatures at $V_{GS} = 0 \text{ V (Diode)}$

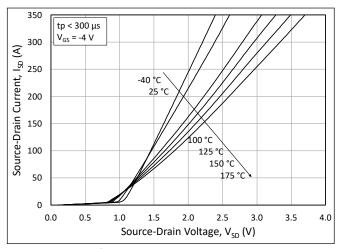


Figure 7. 3^{rd} Quadrant Characteristic vs. Junction Temperatures at $V_{GS} = -4 \text{ V (Diode)}$

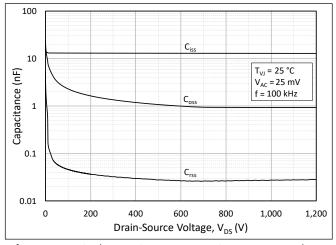


Figure 9. Typical Capacitances vs. Drain to Source Voltage (0 - 1200V)

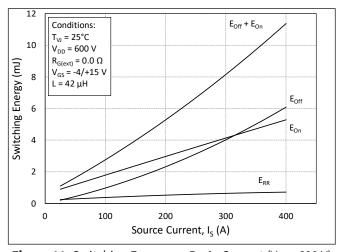


Figure 11. Switching Energy vs. Drain Current $(V_{DS} = 600 \text{ V})$

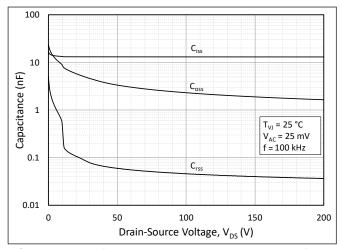


Figure 8. Typical Capacitances vs. Drain to Source Voltage (0 - 200V)

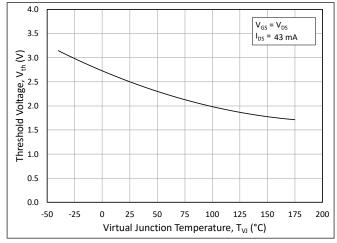


Figure 10. Threshold Voltage vs. Junction Temperature

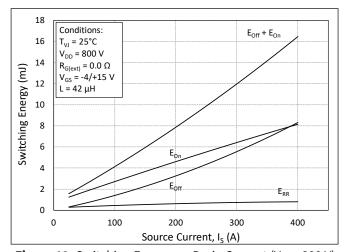


Figure 12. Switching Energy vs. Drain Current $(V_{DS} = 800 \text{ V})$

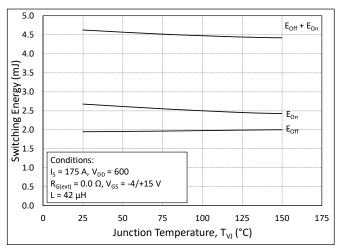


Figure 13. MOSFET Switching Energy vs. Junction Temperature

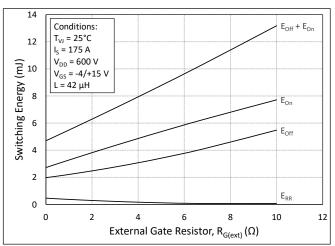


Figure 15. MOSFET Switching Energy vs. External Gate Resistance

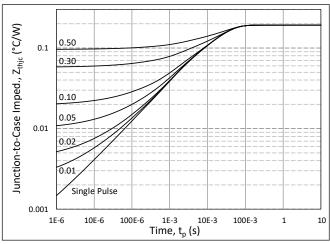


Figure 17. MOSFET Junction to Case Transient Thermal Impedance, $Z_{th,jc}$ (°C/W)

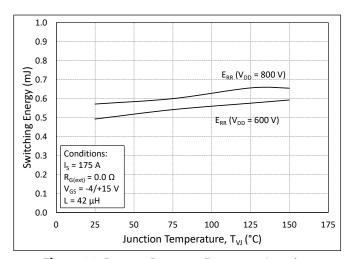


Figure 14. Reverse Recovery Energy vs. Junction Temperature

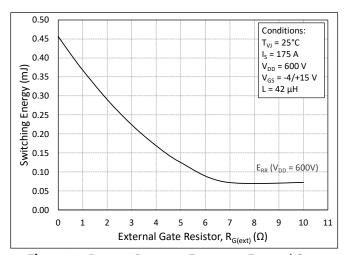


Figure 16. Reverse Recovery Energy vs. External Gate Resistance

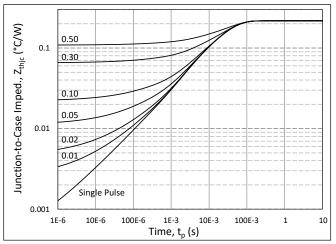


Figure 18. Diode Junction to Case Transient Thermal Impedance, $Z_{th,jc}$ (°C/W)

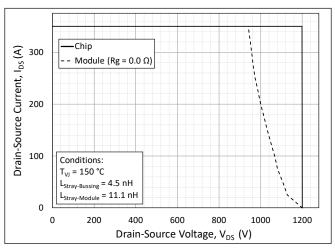


Figure 19. Switching Safe Operating Area

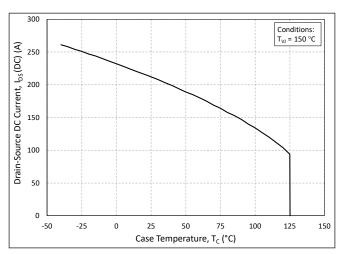


Figure 21. Continuous Drain Current Derating vs. Case Temperature

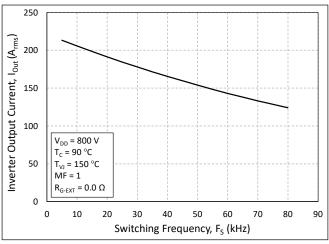


Figure 23. Typical Output Current Capability vs. Switching Frequency (Inverter Application)

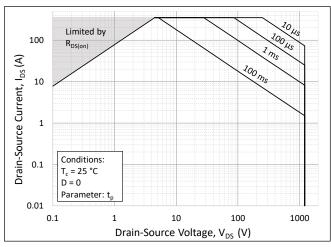


Figure 20. Forward Bias Safe Operating Area (FBSOA)

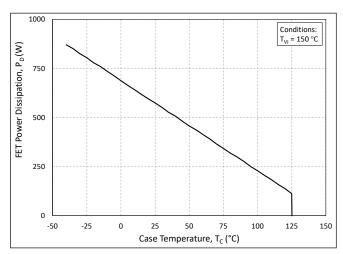


Figure 22. Maximum Power Dissipation Derating vs. Case Temperature

Timing Characteristics

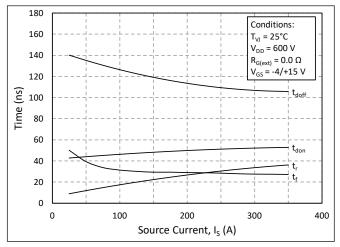


Figure 24. Timing vs. Source Current

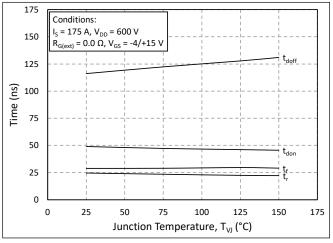


Figure 26. Timing vs. Junction Temperature

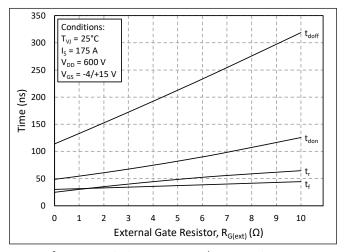


Figure 28. Timing vs. External Gate Resistance

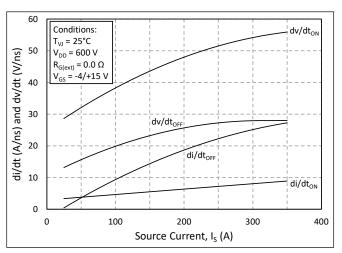


Figure 25. dv/dt and di/dt vs. Source Current

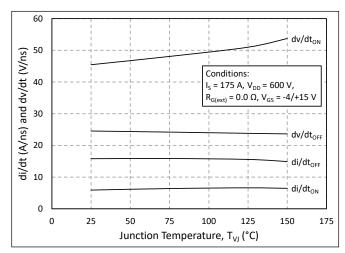


Figure 27. dv/dt and di/dt vs. Junction Temperature

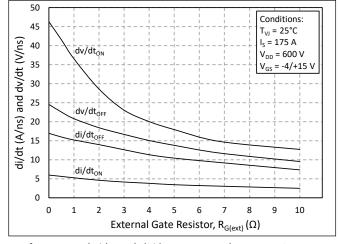


Figure 29. dv/dt and di/dt vs. External Gate Resistance

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Definitions

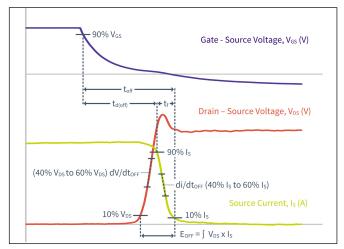


Figure 30. Turn-off Transient Definitions

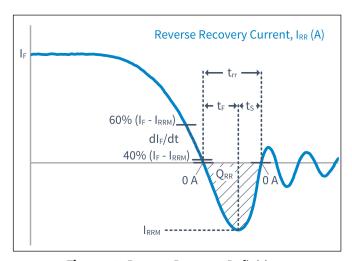


Figure 32. Reverse Recovery Definitions

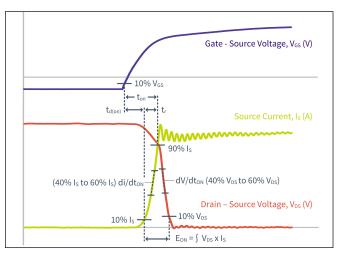


Figure 31. Turn-on Transient Definitions

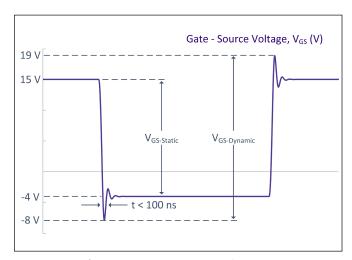
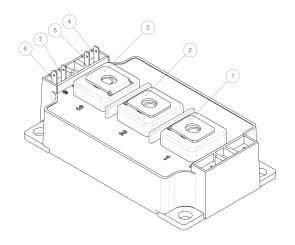
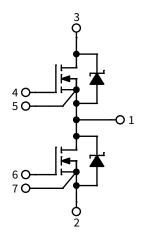


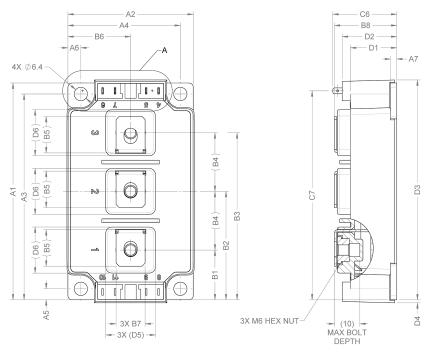
Figure 33. $V_{\rm GS}$ Transient Definitions

Schematic and Pin Out



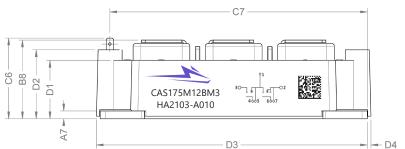


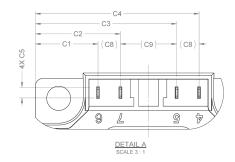
Package Dimension (mm)



A1 103.5 ±0.30 A2 60.44 ±0.30 A3 98.25 ±0.30 A4 54.22 ±0.30 A5 5.25 ±0.30 A6 6.22 ±0.30 A7 3 ±0.30 B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. C9 (15) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	SYMBOL	DIMENSION	TOLERANCE
A3 98.25 ±0.30 A4 54.22 ±0.30 A5 5.25 ±0.30 A6 6.22 ±0.30 A7 3 ±0.30 B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		103.5	±0.30
A4 54.22 ±0.30 A5 5.25 ±0.30 A6 6.22 ±0.30 A7 3 ±0.30 B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D			±0.30
A5 5.25 ±0.30 A6 6.22 ±0.30 A7 3 ±0.30 B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	A3	98.25	±0.30
A6 6.22 ±0.30 A7 3 ±0.30 B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 REF. ±0.40	A4	54.22	±0.30
A7 3 ±0.30 B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	A5	5.25	±0.30
B1 23.75 ±0.40 B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	A6		±0.30
B2 51.75 ±0.40 B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	A7	3	±0.30
B3 79.75 ±0.40 B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.			±0.40
B4 (28) REF. B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	B2	51.75	±0.40
B5 (17.43) REF. B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		79.75	±0.40
B6 30.23 ±0.40 B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	B4	(28)	REF.
B7 (14) REF. B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	B5	(17.43)	REF.
B8 30.03 ±0.40 C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		30.23	
C1 16.73 ±0.40 C2 22.73 ±0.40 C3 37.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	B7	(14)	REF.
C2 22.73 ±0.40 C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		30.03	±0.40
C3 37.73 ±0.40 C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		16.73	±0.40
C4 43.73 ±0.40 C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.			±0.40
C5 2.8 ±0.40 C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		37.73	±0.40
C6 30.8 ±0.50 C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	C4	43.73	±0.40
C7 99.75 ±0.40 C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		2.8	±0.40
C8 (6) REF. C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		30.8	±0.50
C9 (15) REF. D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	C7	99.75	±0.40
D1 22.3 ±0.30 D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.		(6)	REF.
D2 26.3 ±0.30 D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	C9	(15)	REF.
D3 104.95 ±0.30 D4 1.45 ±0.40 D5 (24) REF.	D1	22.3	±0.30
D4 1.45 ±0.40 D5 (24) REF.	D2	26.3	±0.30
D5 (24) REF.		104.95	±0.30
	D4	1.45	±0.40
D6 (22) REF.	D5	(24)	REF.
	D6	(22)	REF.

DIMENSION TABLE





Supporting Links & Tools

Evaluation Tools & Support

- CAS175M12BM3 PLECS Model
- KIT-CRD-CIL12N-BM: Dynamic Performance Evaluation Board for the BM2 and BM3 Module
- SpeedFit 2.0 Design Simulator™
- Technical Support Forum

Dual-Channel Gate Driver Board

- CGD1200HB2P-BM3: Dual Channel Differential Isolated Half Bridge Gate Driver Board
- CGD12HB00D: Differential Transceiver Daughter Board Companion Tool for Differential Gate Drivers

Application Notes

- CPWR-AN35: 62mm Module Thermal Interface Material Application Note
- CPWR-AN34: 62mm Module Mounting Guide Application Note
- CPWRAN12: Understanding the Effects of Parasitic Inductance Part 1.
- CPWRAN13: Understanding the Effects of Parasitic Inductance Part 2.

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Contact info:

4600 Silicon Drive Durham, NC 27703 USA Tel: +1.919.313.5300 www.wolfspeed.com/power