

Si/SiC Hybrid Module – EliteSiC, 3-channel Boost, Q1 Package

NXH240B120H3Q1P1G, NXH240B120H3Q1S1G

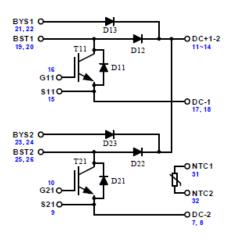
The NXH240B120H3Q1 is a case power module containing a three channel BOOST stage. The integrated field stop trench IGBTs and SiC Diodes provide lower conduction losses and switching losses, enabling designers to achieve high efficiency and superior reliability.

Features

- 1200 V Ultra Field Stop IGBTs
- Low Reverse Recovery and Fast Switching SiC Diodes
- Low Inductive Layout
- Press-fit Pins / Solder Pins
- Thermistor

Typical Applications

- Solar Inverters
- ESS



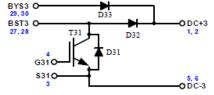
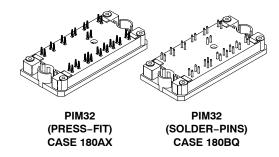
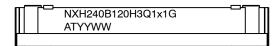


Figure 1. NXH240B120H3Q1 Schematic Diagram



MARKING DIAGRAM



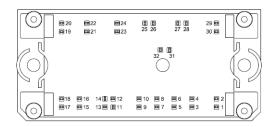
NXH240B120H3Q1x1G = Specific Device Code x = P or S

G = Pb-Free Package

AT = Assembly & Test Site Code

YYWW = Year and Work Week Code

PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 4 of this data sheet.

Table 1. MAXIMUM RATINGS (Note 1)

Rating	Symbol	Value	Unit
GBT (T11, T21, T31)			•
Collector-Emitter Voltage	V _{CES}	1200	V
Gate-Emitter Voltage	V_{GE}	±20	V
Continuous Collector Current @ T _C = 80°C (T _J = 150°C)	I _C	92	А
Pulsed Collector Current (T _J = 150°C)	I _{Cpulse}	276	А
Maximum Power Dissipation (T _J = 150°C)	P _{tot}	266	W
Minimum Operating Junction Temperature	T _{JMIN}	-40	°C
Maximum Operating Junction Temperature	T_{JMAX}	150	°C
PROTECTION DIODE (D11, D21, D31)			
Peak Repetitive Reverse Voltage	V_{RRM}	1200	V
Continuous Forward Current @ T _C = 80°C (T _J = 150°C)	I _F	41	Α
Repetitive Peak Forward Current (T _J = 150°C)	I _{FRM}	123	Α
Maximum Power Dissipation (T _J = 150°C)	P _{tot}	54	W
Minimum Operating Junction Temperature	T _{JMIN}	-40	°C
Maximum Operating Junction Temperature	T _{JMAX}	150	°C
SILICON CARBIDE BOOST DIODE (D12, D22, D32)	•		·
Peak Repetitive Reverse Voltage	V_{RRM}	1200	V
Continuous Forward Current @ T _C = 80°C (T _J = 175°C)	I _F	37	А
Repetitive Peak Forward Current (T _J = 175°C)	I _{FRM}	111	А
Maximum Power Dissipation (T _J = 175°C)	P _{tot}	99	W
Minimum Operating Junction Temperature	T _{JMIN}	-40	°C
Maximum Operating Junction Temperature	T _{JMAX}	175	°C
SYPASS DIODE (D13, D23, D33)	•		·
Peak Repetitive Reverse Voltage	V_{RRM}	1200	V
Continuous Forward Current @ T _C = 80°C (T _J = 150°C)	I _F	54	А
Repetitive Peak Forward Current (T _J = 150°C)	I _{FRM}	162	А
Maximum Power Dissipation (T _J = 150°C)	P _{tot}	64	W
Minimum Operating Junction Temperature	T _{JMIN}	-40	°C
Maximum Operating Junction Temperature	T _{JMAX}	150	°C
HERMAL PROPERTIES			
Storage Temperature range	T _{stg}	-40 to 150	°C
NSULATION PROPERTIES	, -		
Isolation test voltage, t = 1 sec, 60 Hz	V _{is}	3000	V _{RMS}
Creepage distance		12.7	mm

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality

Table 2. RECOMMENDED OPERATING RANGES

Rating	Symbol	Min	Max	Unit
Module Operating Junction Temperature	TJ	-40	150	°C

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

should not be assumed, damage may occur and reliability may be affected.

1. Refer to ELECTRICAL CHARACTERISTICS, RECOMMENDED OPERATING RANGES and/or APPLICATION INFORMATION for Safe Operating parameters.

Table 3. ELECTRICAL CHARACTERISTICS ($T_J = 25^{\circ}C$ unless otherwise noted)

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
IGBT (T11, T21, T31)						
Collector-Emitter Cutoff Current	V _{GE} = 0 V, V _{CE} = 1200 V	I _{CES}	=	-	150	μΑ
Collector-Emitter Saturation Voltage	V _{GE} = 15 V, I _C = 80 A, T _J = 25°C	V _{CE(sat)}	=	2	2.7	V
	V _{GE} = 15 V, I _C = 80 A, T _J = 150°C		=	2.05	=	
Gate-Emitter Threshold Voltage	$V_{GE} = V_{CE}$, $I_C = 80 \mu A$	$V_{GE(TH)}$	4.2	5.2	6	V
Gate Leakage Current	V _{GE} = 20 V, V _{CE} = 0 V	I _{GES}	=	-	450	nA
Turn-on Delay Time	T _J = 25°C	t _{d(on)}	=	100.51	=	ns
Rise Time	V_{CE} = 800 V, I_{C} = 50 A V_{GE} = +15 V, -9 V, R_{G} = 6 Ω	t _r	=	31.95	=	
Turn-off Delay Time	VGE = +13 V, -9 V, NG = 0 \$2	t _{d(off)}	=	377.15	=	
Fall Time	7	t _f	-	38.27	-	1
Turn-on Switching Loss per Pulse	7	E _{on}	-	1660	-	μЈ
Turn off Switching Loss per Pulse	7	E _{off}	-	2470	-	1
Turn-on Delay Time	, ,				-	ns
Rise Time	$V_{CE} = 800 \text{ V, } I_{C} = 50 \text{ A}$ $V_{GF} = +15 \text{ V, } -9 \text{ V, } R_{G} = 6 \Omega$	t _r	-	32	-	1
Turn-off Delay Time	V _{GE} = +15 V, −9 V, H _G = 0 \2	t _{d(off)}	_	440.78	_	1
Fall Time	7	t _f	_	169.39	_	1
Turn-on Switching Loss per Pulse	7	E _{on}	_	1660	_	μЈ
Turn off Switching Loss per Pulse	1	E _{off}	=	5220	=	
Input Capacitance	V _{CE} = 20 V, V _{GE} = 0 V, f = 10 kHz	C _{ies}	=	19082	=	pF
Output Capacitance	7	C _{oes}	=	541	=	1
Reverse Transfer Capacitance	7	C _{res}	=	387	=	1
Total Gate Charge	$V_{CE} = 600 \text{ V}, I_{C} = 25 \text{ A}, V_{GE} = \pm 15 \text{ V}$	Q_g	=	1320	=	nC
Thermal Resistance - chip-to-heatsink	Thermal grease,	R _{thJH}	-	0.464	-	°C/W
Thermal Resistance - chip-to-case	Thickness = 2 Mil $\pm 2\%$, λ = 2.87 W/mK	R _{thJC}	-	0.263	-	°C/W
PROTECTION DIODE (D11, D21, D31)	•					
Diode Forward Voltage	I _F = 30 A, T _J = 25°C	V_{F}	0.8	1.0	1.3	V
	I _F = 30 A, T _J = 150°C		-	0.98	-	
Thermal Resistance - chip-to-heatsink	Thermal grease,	R_{thJH}	-	1.303	-	°C/W
Thermal Resistance - chip-to-case	Thickness = 2 Mil $\pm 2\%$, $\lambda = 2.87$ W/mK	R _{thJC}	-	0.968	-	°C/W
SILICON CARBIDE BOOST DIODE (D12,	D22, D32)			•		•
Diode Forward Voltage	I _F = 30 A, T _J = 25°C	V_{F}	_	1.46	1.7	V
	I _F = 30 A, T _J = 175°C	-	_	2.12	_	1
Reverse Recovery Time	T _J = 25°C	t _{rr}	-	21.5	_	ns
Reverse Recovery Charge	$V_{CE} = 800 \text{ V}, I_{C} = 50 \text{ A}$	Q _{rr}	=	87.82	=	μC
Peak Reverse Recovery Current	V_{GE} = +15 V, -9 V, R_{G} = 6 Ω	I _{RRM}	_	7.21	_	Α
Peak Rate of Fall of Recovery Current	1	di/dt	_	1282.75	_	A/μs
Reverse Recovery Energy	†	E _{rr}	=	23.61	=	μJ
Reverse Recovery Time	T _J = 125°C	t _{rr}	=	25.73	-	ns
Reverse Recovery Charge	V _{CE} = 800 V, I _C = 50 A	Q _{rr}		108.23		μC
Peak Reverse Recovery Current	V_{GE} = +15 V, -9 V, R_{G} = 6 Ω	I _{RRM}		7.6		A
Peak Rate of Fall of Recovery Current	1	di/dt	_	1275.94	-	A/μs
Reverse Recovery Energy	†	E _{rr}	=	30.68	=	μJ

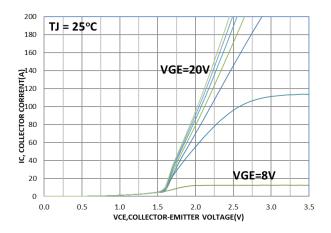
Table 3. ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
SILICON CARBIDE BOOST DIODE (D12,	D22, D32)			•		•
Thermal Resistance - chip-to-heatsink	Thermal grease,	R_{thJH}	-	0.958	-	°C/W
Thermal Resistance - chip-to-case	Thickness = 2 Mil \pm 2%, λ = 2.87 W/mK	R _{thJC}	=	0.682	-	°C/W
BYPASS DIODE (D13, D23, D33)						
Diode Forward Voltage	I _F = 50 A, T _J = 25°C	V _F	=	1.1	1.3	V
	I _F = 50 A, T _J = 150°C		=	0.95	-	
Thermal Resistance - chip-to-heatsink	Thermal grease,	R_{thJH}	=	1.095	-	°C/W
Thermal Resistance - chip-to-case	Thickness = 2 Mil \pm 2%, λ = 2.87 W/mK	R _{thJC}	-	0.767	_	°C/W
THERMISTOR CHARACTERISTICS						
Nominal resistance	T = 25°C	R ₂₅	=	5	-	kΩ
Nominal resistance	T = 100°C	R ₁₀₀	=	492.2	-	Ω
Deviation of R25		ΔR/R	-1	-	1	%
Power dissipation		P_{D}	=	5	-	mW
Power dissipation constant			=	1.3	-	mW/K
B-value	B(25/50), tolerance ±1%		_	3435	_	K

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

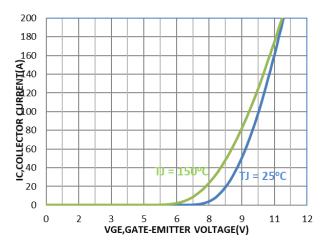
Orderable Part Number	Marking	Package	Shipping
NXH240B120H3Q1P1G	NXH240B120H3Q1P1G	Q1 BOOST, Case 180AX Press-fit Pins (Pb-Free)	21 Units / Blister Tray
NXH240B120H3Q1S1G	NXH240B120H3Q1S1G	Q1 BOOST, Case 180BQ Solder Pins (Pb-Free)	21 Units / Blister Tray



TJ =150°C 180 160 COLLECTOR CORRENT(A) 100 100 100 100 100 VGE=20V VGE=8V 40 کے 20 0 0.0 0.5 1.5 2.0 3.0 3.5 2.5 VCE,COLLECTOR-EMITTER VOLTAGE(V)

Figure 2. Typical Output Characteristics

Figure 3. Typical Output Characteristics



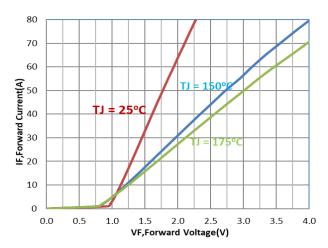
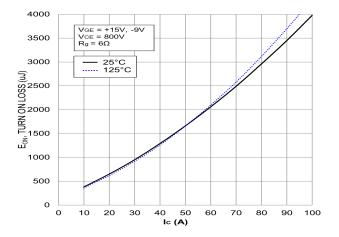


Figure 4. Typical Transfer Characteristics

Figure 5. Diode Forward Characteristics



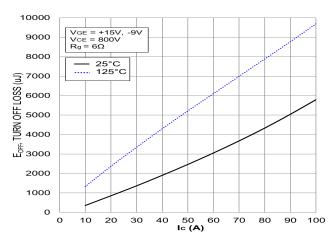


Figure 6. Typical Turn ON Loss vs. I_C

Figure 7. Typical Turn OFF Loss vs. I_C

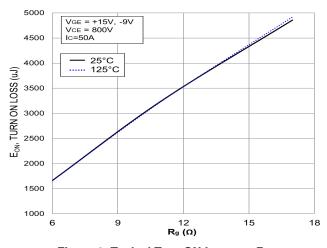


Figure 8. Typical Turn ON Loss vs. $R_{\mbox{\scriptsize G}}$

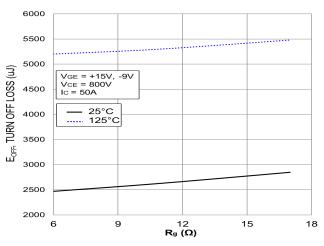


Figure 9. Typical Turn OFF Loss vs. R_G

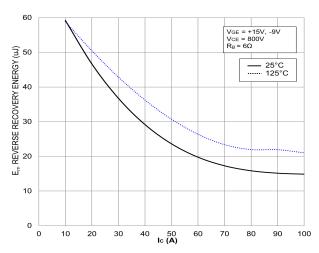


Figure 10. Typical Reverse Recovery Time vs. I_C

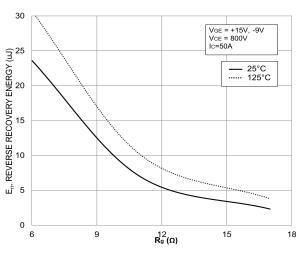


Figure 11. Typical Reverse Recovery Time vs. R_G

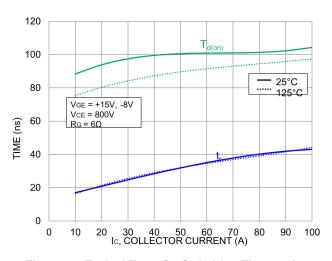


Figure 12. Typical Turn-On Switching Time vs. I_C

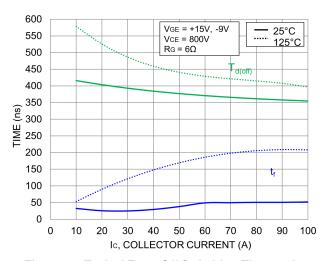


Figure 13. Typical Turn-Off Switching Time vs. I_C

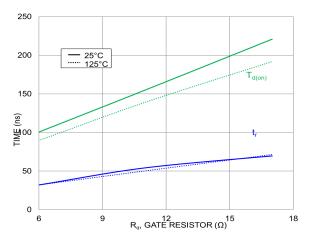


Figure 14. Typical Turn-On Switching Time vs. R_G

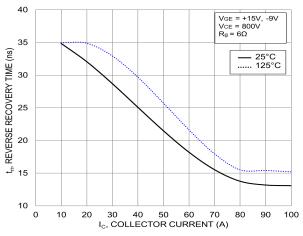


Figure 16. Typical Reverse Recovery Time vs. I_C

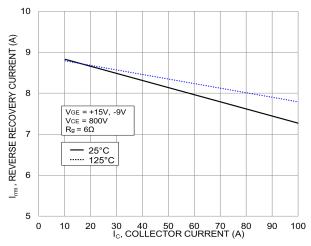


Figure 18. Typical Reverse Recovery Peak Current vs. I_C

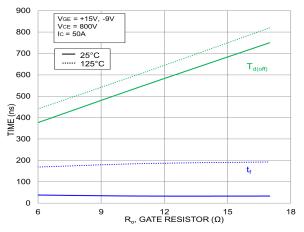


Figure 15. Typical Turn-Off Switching Time vs. R_G

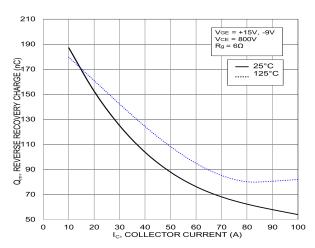


Figure 17. Typical Reverse Recovery Charge vs. IC

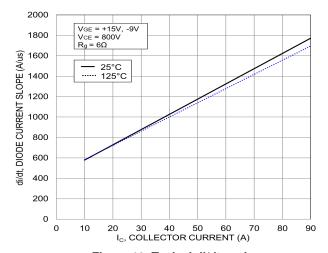


Figure 19. Typical di/dt vs. I_C

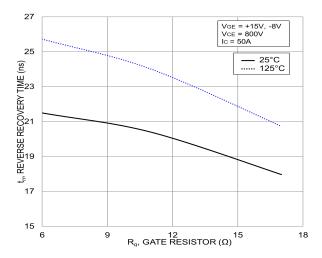


Figure 20. Typical Reverse Recovery Time vs. $R_{\mbox{\scriptsize G}}$

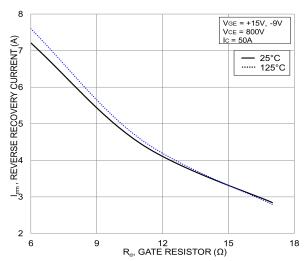


Figure 22. Typical Reverse Recovery Current vs. R_G

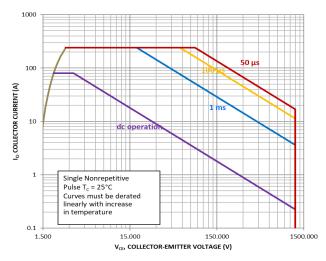


Figure 24. FBSOA

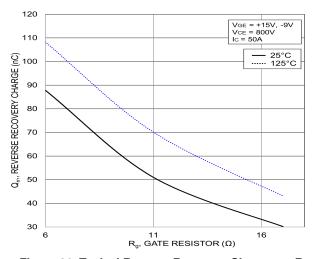


Figure 21. Typical Reverse Recovery Charge vs. R_G

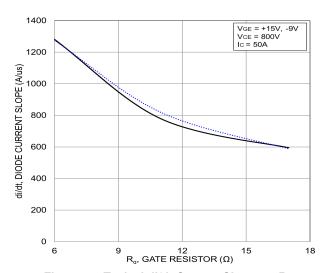


Figure 23. Typical di/dt Current Slope vs. R_G

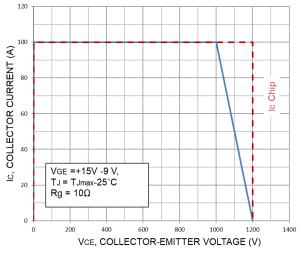


Figure 25. RBSOA

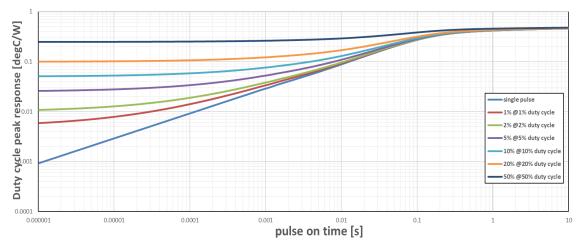


Figure 26. Transient Thermal Impedance (T1, T2, T3)

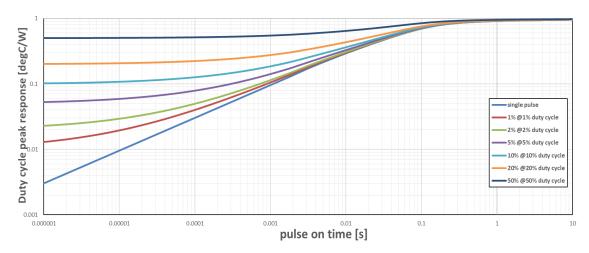


Figure 27. Transient Thermal Impedance (D12, D22, D32)

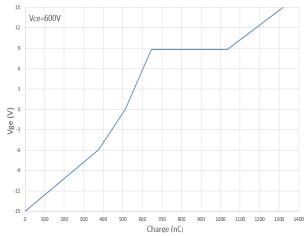


Figure 28. Gate Voltage vs. Gate Charge

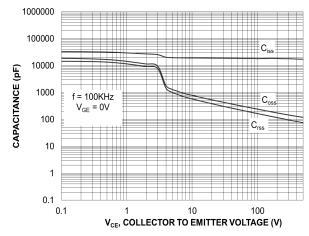


Figure 29. Gate Voltage vs. Gate Charge

TYPICAL CHARACTERISTICS - DIODE (D13, D23, D33)

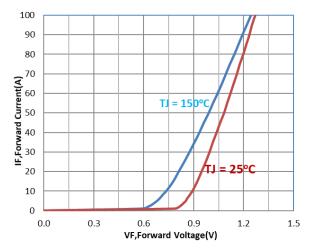


Figure 30. Diode Forward Characteristics

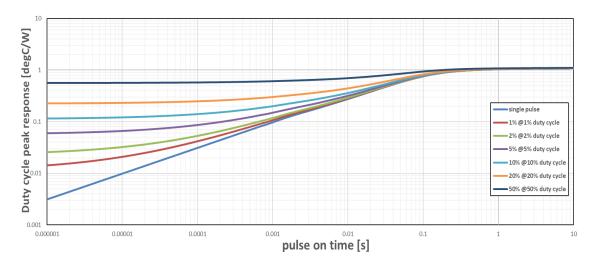


Figure 31. Transient Thermal Impedance

TYPICAL CHARACTERISTICS - DIODE (D11, D21, D31)

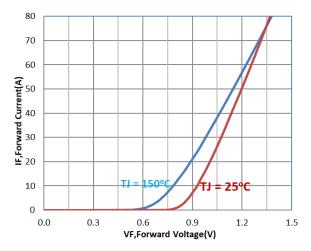


Figure 32. Diode Forward Characteristics

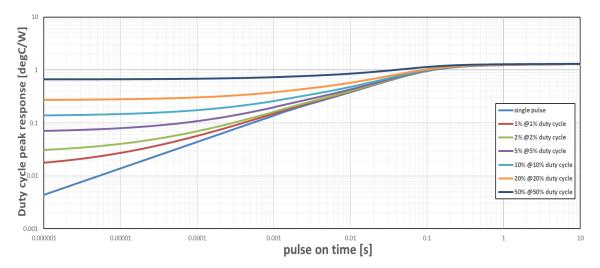
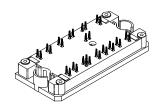


Figure 33. Transient Thermal Impedance





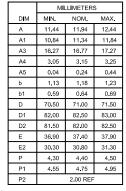
PACKAGE ORIENTATION FEATURE

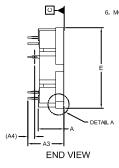
PIM32, 71x37.4 (PRESS-FIT) CASE 180AX **ISSUE O**

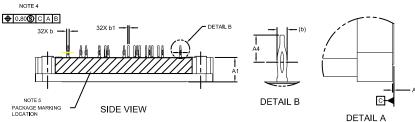
DATE 25 JAN 2019

NOTES:

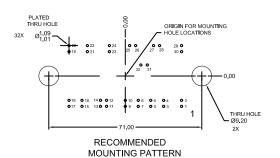
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. DIMENSIONS b AND b1 APPLY TO THE PLATED TERMINALS AND ARE MEASURED AT DIMENSION A4,
- 4. POSITION OF THE CENTER OF THE TERMINALS AND MOUNTING HOLES IS DETERMINED FROM DATUM B THE CENTER OF DIMENSION D, X DIRECTION, AND FROM DATUM A, Y DIRECTION. POSITIONAL TOLERANCE AS NOTED IN DRAWING APPLIES TO BOTH TERMINALS AND MOUNTING HOLES IN BOTH DIRECTIONS.
- 5. PACKAGE MARKING IS LOCATED, AS SHOWN, ON THE SIDE OPPOSITE THE PACKAGE ORIENTATION FEATRUES.
- 6. MOUNTING RECOMMENDATION IS SHOWN AS VIEWED FROM THE PCB TOP LAYER LOOKING DOWN TO SUBSEQUENT LAYERS.







-B



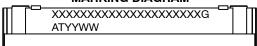
D1

TOP VIEW

IOTE 4	
	-
PIN	
1	

	PIN POSITION			PIN POS	SITION	
PIN	Х	Υ	PIN	Х	Υ	
1	26.10	-14.10	17	-26.10	-14.10	
2	26.10	-11.30	18	-26.10	-11.30	
3	17.80	-14.10	19	-26.10	11.30	
4	17.80	-11.30	20	-26.10	14.10	
5	11.80	-14.10	21	-17.60	11.30	
6	11.80	-11.30	22	-17.60	14.10	
7	6.00	-14.10	23	-7.40	11.30	
8	6.00	-11.30	24	-7.40	14.10	
9	0.00	-14.10	25	2.00	14.10	
10	0.00	-11.30	26	4.80	14.10	
11	-8.70	-14.10	27	13.10	14.10	
12	-8.70	-11.30	28	15,90	14,10	
13	-11.50	-14.10	29	26.10	14.10	
14	-11.50	-11.30	30	26.10	11.30	
15	-20.10	-14.10	31	10.20	5.10	
16	-20.10	-11.30	32	7.20	5.10	

GENERIC MARKING DIAGRAM*



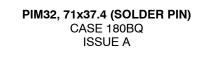
XXXXX = Specific Device Code

G = Pb-Free Package

= Assembly & Test Site Code YYWW = Year and Work Week Code *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " • ", may or may not be present. Some products may not follow the Generic Marking.

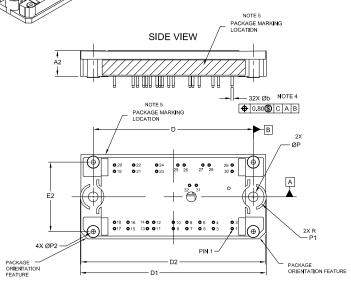
DOCUMENT NUMBER:	98AON02449H	Electronic versions are uncontrolled except when accessed directly from the Document Reportant Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	PIM32, 71x37.4 (PRESS-FI	T)	PAGE 1 OF 1		

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DATE 23 JUL 2021

PIN POSITION

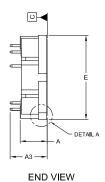


TOP VIEW

ORIGIN FOR MOUNTING HOLE LOCATIONS

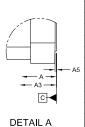
0.00

THRU HOLE



	MILLIMETERS						
DIM	MIN.	MAX.					
Α	11.70	12.00	12.30				
A2	10.90	11.40	11.90				
А3	15.90	16.40	16.90				
A5	0.00	-	0.45				
b	0.90	1.00	1.10				
D	70.50	71.00	71.50				
D1	82.00	82.50	83.00				
D2	81.50	82.00	82.50				
E	36.90	37.40	37.90				
E2	30.30	30.80	31.30				
Р	4.30	4.40	4.50				
P1	4.55	4.75	4.95				
P2	2.00 REF						

N



		PINPOS	SITION			PINPOS	SHION
	PIN	х	Υ	Ш	PIN	Х	Υ
	1	26.10	-14.10	П	17	-26.10	-14.10
	2	26.10	-11.30		18	-26.10	-11.30
	3	17.80	-14.10	Ш	19	-26.10	11.30
	4	17.80	-11.30		20	-26.10	14.10
	5	11.80	-14.10	Ш	21	-17.60	11.30
	6	11.80	-11.30		22	-17.60	14.10
•	7	6.00	-14.10		23	-7.40	11.30
	8	6.00	-11.30	Ш	24	-7.40	14.10
	9	0.00	-14.10		25	2.00	14.10
	10	0.00	-11.30	Ш	26	4.80	14.10
	11	-8.70	-14.10		27	13.10	14.10
	12	-8.70	-11.30	Ш	28	15.90	14.10
	13	-11.50	-14.10		29	26.10	14.10
	14	-11.50	-11.30		30	26.10	11.30
	15	-20.10	-14.10		31	10.20	5.10

PIN POSITION

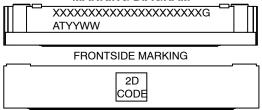
NOT

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. DIMENSION 6 APPLIES TO THE PLATED TERMINALS AND IS MEASURED BETWEEN 1.00 AND 3.00 FROM THE TERMINAL TIP.
- POSITION OF THE CENTER OF THE TERMINALS AND MOUNTING HOLES IS DETERMINED FROM DATUM B THE CENTER OF DIMENSION D, X DIRECTION, AND FROM DATUM A, Y DIRECTION. POSITIONAL TOLERANCE, AS NOTED IN DRAWING, APPLIES TO BOTH TERMINALS AND MOUNTING HOLES IN BOTH DIRECTIONS.
- 5. PACKAGE MARKING IS LOCATED, AS SHOWN, ON THE SIDE OPPOSITE THE PACKAGE ORIENTATION FEATURES.
- 6. MOUNTING RECOMMENDATION IS SHOWN AS VIEWED FROM THE PCB TOP LAYER LOOKING DOWN TO SUBSEQUENT LAYERS.

RECOMMENDED MOUNTING PATTERN*

For additional information on our Pb-Free strategy and soldering details, please download the On Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC MARKING DIAGRAM*



BACKSIDE MARKING

XXXXX = Specific Device Code

G = Pb-Free Package

AT = Assembly & Test Site Code

YYWW = Year and Work Week Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	PIM32, 71x37.4 (SOLDER F	PIN)	PAGE 1 OF 1		

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FF150R12KE3G FF200R06KE3 FF200R06YE3 FF300R06KE3_B2 FF300R17ME4 FF600R12IP4V FF800R17KP4_B2 FF900R12IE4V
FP06R12W1T4_B3 FP100R07N3E4 FP100R07N3E4_B11 FP10R06W1E3_B11 FP10R12W1T4_B11 FP10R12YT3 FP15R12W2T4
FP15R12YT3 FP20R06W1E3 FP30R06W1E3 FP40R12KT3G FP75R06KE3 FS10R12YE3 FS150R07PE4 FS150R12PT4
FS150R17N3E4_B11 FS20R06W1E3_B11 FS30R06W1E3_B11 FS75R12KE3G FS75R12W2T4_B11 FZ1600R17HP4_B2
FZ300R12KE3G FZ400R17KE3 FZ400R17KE4 FZ600R65KE3 DF1000R17IE4D_B2 APTGT75DA60T1G DZ800S17K3 F1225R12KT4G F3L200R12W2H3_B11 F3L300R12ME4_B22 F3L75R07W2E3_B11 F4-150R12KS4 F475R07W1H3B11ABOMA1
FD1400R12IP4D