

Dual Boost Power Module

NXH100B120H3Q0, NXH100B120H3Q0PG-R

The NXH100B120H3Q0 is a power module containing a dual 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
- 1600 V Bypass and Anti-parallel Diodes
- Low Inductive Layout
- Solderable Pins or Press-Fit Pins
- Thermistor
- Options with Pre–Applied Thermal Interface Material (TIM) and Without Pre–Applied TIM

Typical Applications

- Solar Inverter
- Uninterruptible Power Supplies
- Energy Storage Systems

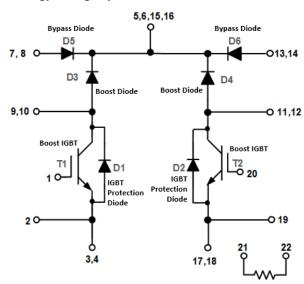
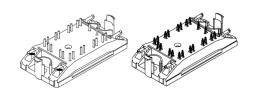


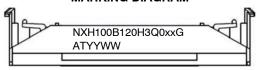
Figure 1. NXH100B120H3Q0xG/PG-R Schematic Diagram

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Q0BOOST CASE 180AJ SOLDER PINS Q0BOOST CASE 180BF PRESS-FIT PINS

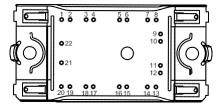
MARKING DIAGRAM



xx = P, PT, S or ST

YYWW = Year and Work Week Code
A = Assembly Site Code
T = Test Site Code
G = Pb-Free Package

PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information on page 4 of this data sheet.

ABSOLUTE MAXIMUM RATINGS (Note 1) $T_J = 25$ °C Unless Otherwise Noted

Rating	Symbol	Value	Unit
BOOST IGBT			
Collector-Emitter Voltage	V _{CES}	1200	V
Gate-Emitter Voltage	V_{GE}	±20	V
Continuous Collector Current @ T _{C <} 80°C (T _J = 175°C)	I _{C1}	61	Α
Continuous Collector Current @ T _{C <} 102°C (T _J = 175°C)	I _{C2}	50	Α
Pulsed Collector Current (T _J = 175°C)	I _{Cpulse}	150	Α
Maximum Power Dissipation @ T _C = 80°C (T _J = 175°C)	P _{tot}	186	W
Minimum Operating Junction Temperature	T_{JMIN}	-40	°C
Maximum Operating Junction Temperature	T_{JMAX}	150	°C
BOOST DIODE		-	
Peak Repetitive Reverse Voltage	V_{RRM}	1200	V
Continuous Forward Current @ T _{C <} 80°C (T _J = 175°C)	I _{F1}	34	Α
Continuous Forward Current @ T _{C <} 132°C (T _J = 175°C)	I _{F2}	20	Α
Maximum Power Dissipation @ T _C = 80°C (T _J = 175°C)	P _{tot}	114	W
Surge Forward Current (60 Hz single half-sine wave)	I _{FSM}	185	Α
I ² t - value (60 Hz single half-sine wave)	I ² t	142	A ² s
Minimum Operating Junction Temperature	T_{JMIN}	-40	°C
Maximum Operating Junction Temperature	T_{JMAX}	150	°C
BYPASS DIODE / IGBT PROTECTION DIODE			
Peak Repetitive Reverse Voltage	V_{RRM}	1600	V
Continuous Forward Current @ T _{C <} 80°C (T _J = 175°C)	I _{F1}	58	Α
Continuous Forward Current @ T _{C <} 141°C (T _J = 175°C)	I _{F2}	25	Α
Repetitive Peak Forward Current ($T_J = 175^{\circ}C$, t_p limited by T_{Jmax})	I _{FRM}	75	Α
Maximum Power Dissipation @ T _C = 80°C (T _J = 175°C)	P _{tot}	91	W
Minimum Operating Junction Temperature	T_{JMIN}	-40	°C
Maximum Operating Junction Temperature	T_{JMAX}	150	°C
THERMAL PROPERTIES			
Storage Temperature range	T _{stg}	-40 to 125	°C
INSULATION PROPERTIES	-		
Isolation test voltage, t = 1 sec, 60 Hz	V _{is}	3000	VRMS
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 should not be assumed, damage may occur and reliability may be affected.

RECOMMENDED OPERATING RANGES

Rating	Symbol	Min	Max	Unit
Module Operating Junction Temperature	T_J	-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.

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

ELECTRICAL CHARACTERISTICS T_J = 25°C Unless Otherwise Noted

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
BOOST IGBT CHARACTERISTICS	•			•	•	•
Collector-Emitter Cutoff Current	V _{GE} = 0 V, V _{CE} = 1200 V	I _{CES}	=	_	200	μΑ
Collector-Emitter Saturation Voltage	V _{GE} = 15 V, I _C = 50 A, T _J = 25°C	V _{CE(sat)}	=	1.77	2.3	V
	V _{GE} = 15 V, I _C = 50 A, T _J = 150°C	- 	-	1.93	-	1
Gate-Emitter Threshold Voltage	V _{GE} = V _{CE} , I _C = 1 mA	V _{GE(TH)}	4.6	5.27	6.5	V
Gate Leakage Current	V _{GE} = 20 V, V _{CE} = 0 V	I _{GES}	-	_	800	nA
Turn-on Delay Time	T _J = 25°C	t _{d(on)}	-	44	-	ns
Rise Time	$V_{CE} = 700 \text{ V}, I_{C} = 50 \text{ A V}_{GE} = \pm 15 \text{ V},$ $R_{G} = 4 \Omega$	t _r	-	16	-	1
Turn-off Delay Time	1	t _{d(off)}	_	203	-	1
Fall Time	1	t _f	_	23	-	1
Turn-on Switching Loss per Pulse	1	E _{on}	=	700	-	1
Turn-off Switching Loss per Pulse	1	E _{off}	-	1500	_	1
Turn-on Delay Time	T _J = 125°C	t _{d(on)}	_	43	-	ns
Rise Time	$V_{CE} = 700 \text{ V}, I_{C} = 50 \text{ A V}_{GE} = \pm 15 \text{ V},$ $R_{G} = 4 \Omega$	t _r	=	18	_	1
Turn-off Delay Time	1	t _{d(off)}	=	233	_	1
Fall Time	1	t _f	=	58	_	1
Turn-on Switching Loss per Pulse		E _{on}	=	800	_	1
Turn-off Switching Loss per Pulse		E _{off}	=	2600	_	1
Input Capacitance	V _{CE} = 20 V, V _{GE} = 0 V, f = 10 kHz	C _{ies}	-	9075	-	pF
Output Capacitance	1	C _{oes}	_	173	-	1
Reverse Transfer Capacitance	1	C _{res}	=	147	_	1
Total Gate Charge	V _{CE} = 600 V, I _C = 40 A, V _{GE} = 15 V	Q_g	-	409	-	nC
Thermal Resistance - chip-to-case		R_{thJC}	_	0.51	-	°C/W
Thermal Resistance – chip-to-heatsink	Thermal grease, Thickness \approx 100 μm , λ = 2.87 W/mK	R_{thJH}	_	0.82	_	°C/W
BOOST DIODE CHARACTERISTICS	•	<u> </u>		1		
Diode Reverse Leakage Current	V _R = 1200 V	I_{R}	=	_	300	μΑ
Diode Forward Voltage	I _F = 20 A, T _J = 25°C	V _F	_	1.44	1.8	٧
	I _F = 20 A, T _J = 150°C	†	=	1.93	_	1
Reverse Recovery Time	T _J = 25°C	t _{rr}	=	15	_	ns
Reverse Recovery Charge	$V_{CE} = 700 \text{ V}, I_{C} = 50 \text{ A V}_{GE} = \pm 15 \text{ V},$ $R_{G} = 4 \Omega$	Q _{rr}	=	108	-	nC
Peak Reverse Recovery Current	1	I _{RRM}	_	11	-	Α
Peak Rate of Fall of Recovery Current	1	di/dt	=	1500	_	A/μs
Reverse Recovery Energy	1	E _{rr}	=	20	_	μJ
Reverse Recovery Time	T _J = 125°C	t _{rr}	=	16	_	ns
Reverse Recovery Charge	$V_{CE} = 700 \text{ V}, I_{C} = 50 \text{ A V}_{GE} = \pm 15 \text{ V},$ $R_{G} = 4 \Omega$	Q _{rr}	=	115		nC
Peak Reverse Recovery Current	1 -	I _{RRM}	=	12		Α
Peak Rate of Fall of Recovery Current	1	di/dt	=	1400		A/μs
Reverse Recovery Energy	1	E _{rr}	=	22		μJ
Thermal Resistance - chip-to-case	1	R _{thJC}	_	0.83		°C/W
Thermal Resistance - chip-to-heatsink	Thermal grease, Thickness \approx 100 μ m, λ = 2.87 W/mK	R _{thJH}	=	1.15	-	°C/W

ELECTRICAL CHARACTERISTICS T_J = 25°C Unless Otherwise Noted

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit	
BYPASS DIODE/IGBT PROTECTION DIODE CHARACTERISTICS							
Diode Reverse Leakage Current	Reverse Leakage Current $V_R = 1600 \text{ V}, T_J = 25^{\circ}\text{C}$ I_R				100	μΑ	
Diode Forward Voltage	I _F = 25 A, T _J = 25°C	V _F	_	1.0	1.4	V	
	I _F = 25 A, T _J = 150°C		_	0.90	_	1	
Thermal Resistance - chip-to-case		R _{thJC}	_	1.04	-	°C/W	
Thermal Resistance – chip-to- neatsink Thermal grease, Thickness \approx 100 μ m, λ = 2.87 W/mK		R _{thJH}	-	1.41	_	°C/W	
THERMISTOR CHARACTERISTICS				-		•	
Nominal resistance		R ₂₅	_	22	_	kΩ	
Nominal resistance	T = 100°C	R ₁₀₀	_	1486	_	Ω	
Deviation of R25		ΔR/R	-5	-	5	%	
Power dissipation		P_{D}	_	200	_	mW	
Power dissipation constant			_	2	_	mW/K	
B-value	B(25/50), tolerance ±3%		_	3950	_	К	
B-value B(25/100), tolerance ±3%			_	3998	_	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
NXH100B120H3Q0PG, NXH100B120H3Q0PG-R	NXH100B120H3Q0PG, NXH100B120H3Q0PG-R	Q0BOOST - Case 180BF (Pb-Free and Halide-Free) Press-Fit Pins	24 Units / Blister Tray
NXH100B120H3Q0SG	NXH100B120H3Q0SG	Q0BOOST - Case 180AJ (Pb-Free and Halide-Free) Solder Pins	24 Units / Blister Tray
NXH100B120H3Q0PTG	NXH100B120H3Q0PTG	Q0BOOST - Case 180BF (Pb-Free and Halide-Free) Press-Fit Pins, Thermal Interface Material (TIM)	24 Units / Blister Tray
NXH100B120H3Q0STG	NXH100B120H3Q0STG	Q0BOOST - Case 180AJ (Pb-Free and Halide-Free) Solder Pins, Thermal Interface Material (TIM)	24 Units / Blister Tray

TYPICAL CHARACTERISTICS Boost IGBT & IGBT Protection Diode / Bypass Diode

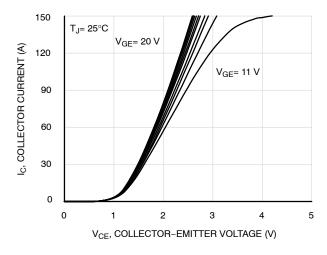


Figure 2. IGBT Typical Output Characteristics

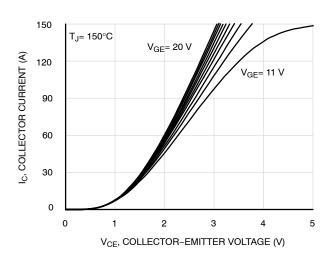


Figure 3. IGBT Typical Output Characteristics

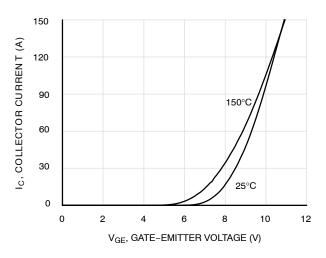


Figure 4. IGBT Typical Transfer Characteristics

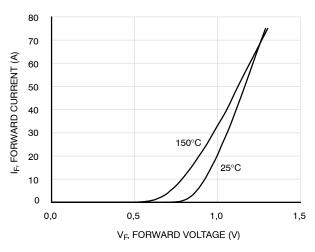


Figure 5. Diode Forward Characteristics

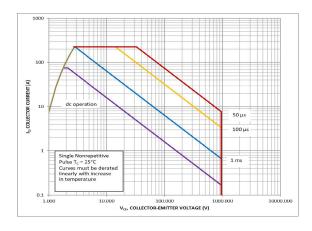


Figure 6. FBSOA

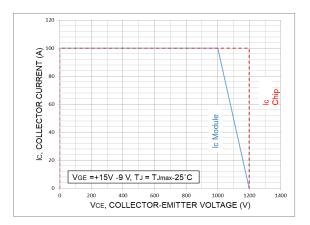
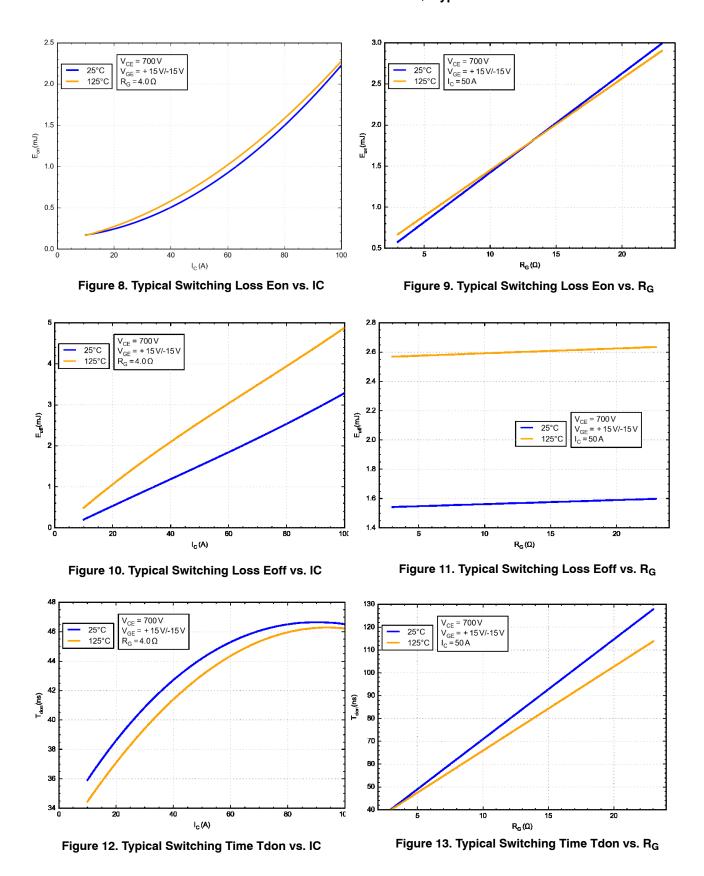
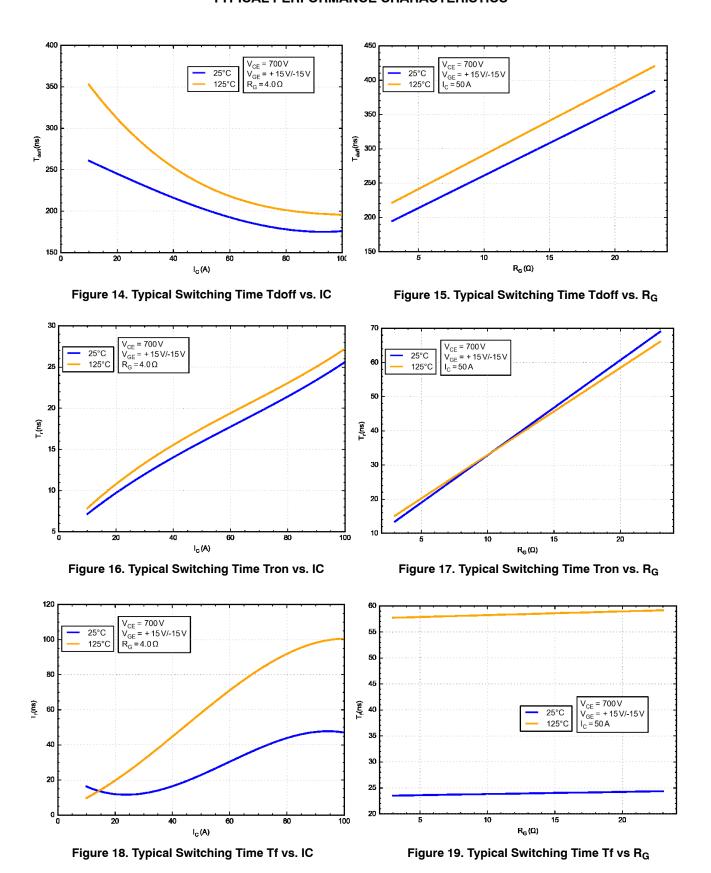


Figure 7. RBSOA

TYPICAL CHARACTERISTICS Boost IGBT & IGBT Protection Diode / Bypass Diode





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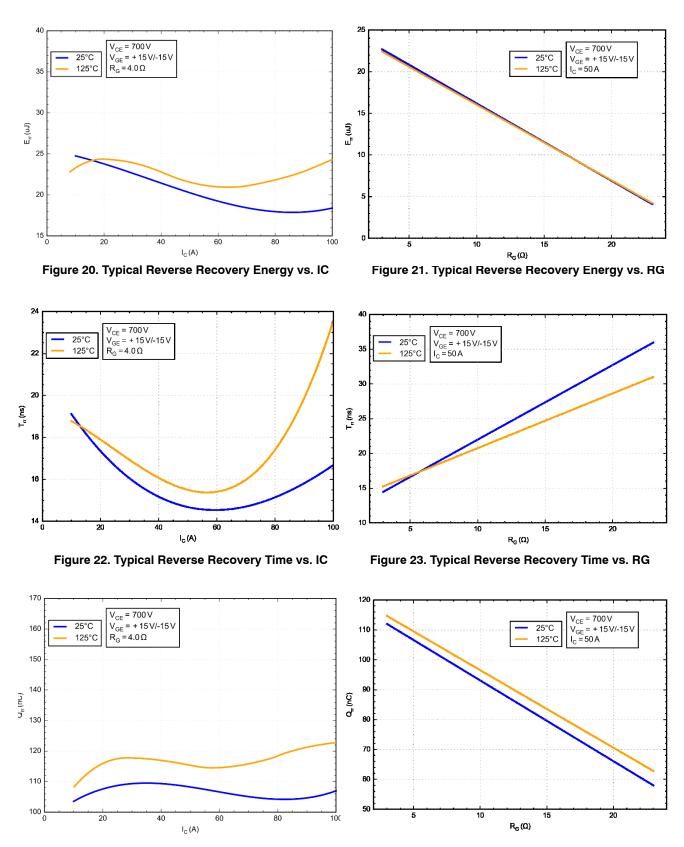


Figure 24. Typical Reverse Recovery Charge vs. IC

Figure 25. Typical Reverse Recovery Charge vs. RG

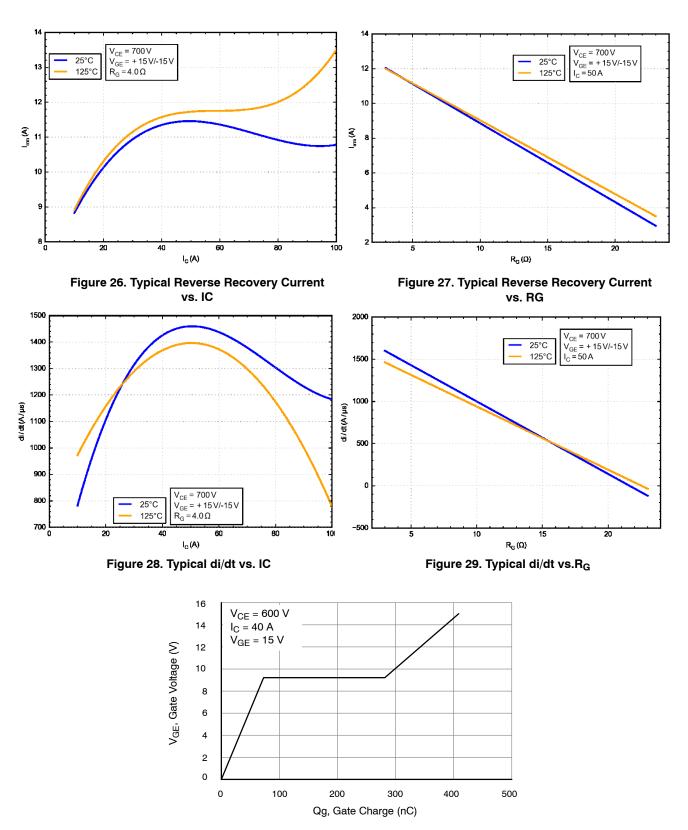


Figure 30. Gate Voltage vs. Gate Charge

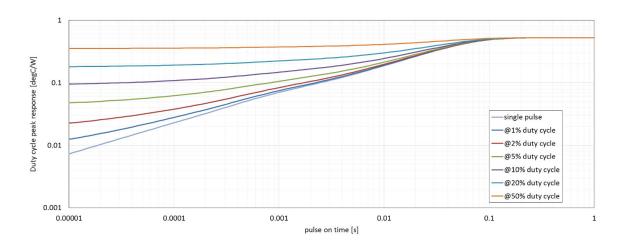


Figure 31. IGBT Junction-to-Case Transient Thermal Impedance

TYPICAL PERFORMANCE CHARACTERISTICS - Boost Diode

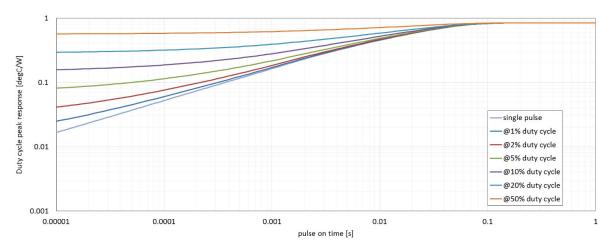


Figure 32. Diode Junction-to-Case Transient Thermal Impedance

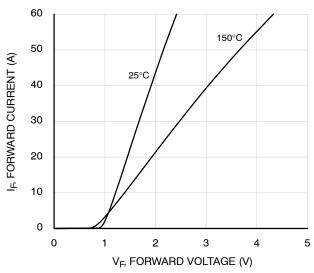


Figure 33. Diode Forward Characteristic

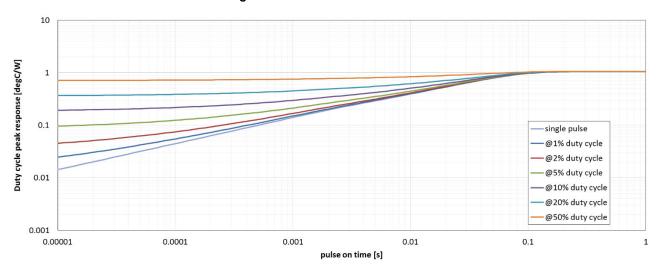
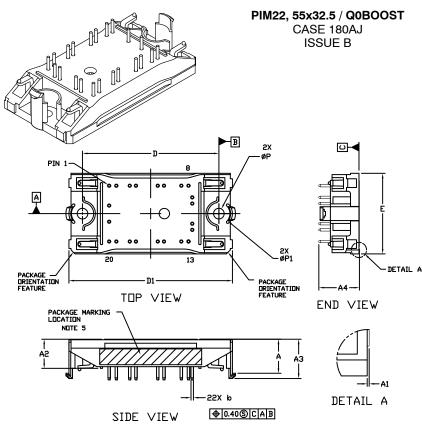


Figure TBD: Transient Thermal Impedance

Figure 34. Diode Junction-to-Case Transient Thermal Impedance

DATE 08 NOV 2017



NOTES:

- 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.
- 4. POSITION OF THE CENTER OF THE TERMINALS
 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 EACH TERMINAL IN BOTH
 DIRECTIONS.
- PACKAGE MARKING IS LOCATED AS SHOWN ON THE SIDE OPPOSITE THE PACKAGE ORIENTATION FEATURES.

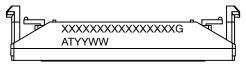
	MILLIMETERS				
DIM	MIN.	NDM.			
Α	13.50	13.90			
A1	0.10	0.30			
A2	11.50	11.90			
A3	15.65	16.05			
A4	16.35	REF			
b	0.95	1.05			
D	54.80	55.20			
D1	65.60	66.20			
E	32.20	32.80			
Р	4.20	4.40			
P1	8.90	9.10			

MOUNTING HOLE POSITION

NOTE 4

	HOLE P	OSITION		PIN PE	ISITION		PIN PI	NOITIZE		PIN PI	NDITIZE
PIN	X	Y	PIN	х	Υ	PIN	X	Y	PIN	Х	Y
1	-16.75	-11.25	12	16.75	6.55	1	-16.75	11.25	12	16.75	-6.55
2	-13.85	-11.25	13	15.25	11.25	2	-13.85	11.25	13	15.25	-11.25
3	-8.45	-11.25	14	12.35	11.25	3	-8.45	11.25	14	12.35	-11.25
4	-5.95	-11.25	15	5.35	11.25	4	-5.95	11.25	15	5.35	-11.25
5	2.85	-11.25	16	2.85	11.25	5	2.85	11.25	16	2.85	-11.25
6	5.35	-11.25	17	-5.95	11.25	6	5.35	11.25	17	-5.95	-11.25
7	12.35	-11.25	18	-8.45	11.25	7	12.35	11.25	18	-8.45	-11.25
8	15.25	-11.25	19	-13.85	11.25	8	15.25	11.25	19	-13.85	-11.25
9	16.75	-6.55	20	-16.75	11.25	9	16.75	6.55	20	-16.75	-11.25
10	16.75	-4.05	21	-16.75	3.25	10	16.75	4.05	21	-16.75	-3.25
11	16.75	4.05	22	-16.75	-3.25	11	16.75	-4.05	22	-16.75	3.25

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code

G = Pb-Free Package

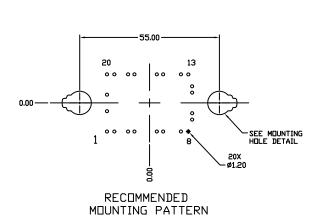
AT = Assembly & Test Site Code

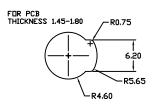
YYWW = Year and Work Week Code

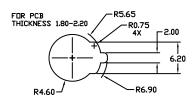
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

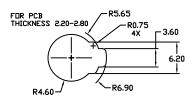
DOCUMENT NUMBER:	98AON63481G	ON63481G Electronic versions are uncontrolled except when accessed directly from the Documer Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red			
DESCRIPTION:	PIM22 55X32.5 / Q0BOOST	(SOLDER PIN)	PAGE 1 OF 2		

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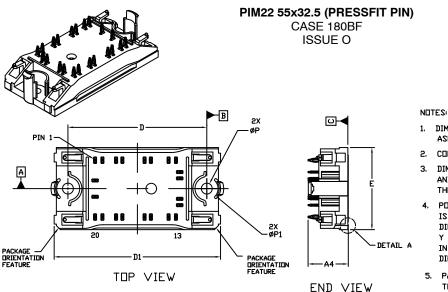


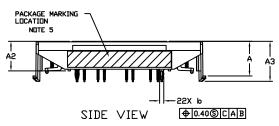
MOUNTING HOLE DETAIL

DOCUMENT NUMBER:	98AON63481G	Electronic versions are uncontrolled except when accessed directly from the Document Repository Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	PIM22 55X32.5 / Q0BOOST	(SOLDER PIN)	PAGE 2 OF 2		

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DATE 21 MAY 2019





NOTE 4

	PIN POSITION			PIN PI	ISITION
PIN	X	Υ	PIN	х	Υ
1	-16.75	11.25	12	16.75	-6.55
2	-13.85	11.25	13	15.25	-11.25
3	-8.45	11.25	14	12.35	-11.25
4	-5.95	11.25	15	5.35	-11.25
5	2.85	11.25	16	2.85	-11.25
6	5.35	11.25	17	-5.95	-11.25
7	12.35	11.25	18	-8.45	-11.25
8	15.25	11.25	19	-13.85	-11.25
9	16.75	6.55	20	-16.75	-11.25
10	16.75	4.05	21	-16.75	-3.25
11	16.75	-4.05	22	-16.75	3.25

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 IN DRAWING, APPLIES TO EACH TERMINAL IN BOTH
 DIRECTIONS.
- PACKAGE MARKING IS LOCATED AS SHOWN ON THE SIDE OPPOSITE THE PACKAGE ORIENTATION FEATURES.

	MILLIMETERS				
DIM	MIN.	N□M.	MAX.		
Α	13.50	13.70	13.90		
A1	0.10	0.20	0.30		
A2	11.50	11.70	11.90		
АЗ	15.65	15.85	16.05		
A4	1	.5.95 RE	F		
b	1.61	1.66	1.71		
D	54.80	55.00	55.20		
D1	65.60	65.90	66.20		
E	32.20	32.50	32.80		
Р	4.20	4.30	4.40		
P1	8.90	9.00	9.10		

DOCUMENT NUMBER:	98AON07824H	Electronic versions are uncontrolled except when accessed directly from the Document Rep Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	PIM22 55x32.5 (PRESSFIT	PIM22 55x32.5 (PRESSFIT PIN)		

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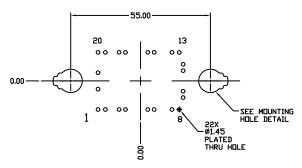
PIM22 55x32.5 (PRESSFIT PIN)

CASE 180BF ISSUE O

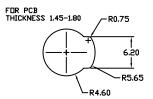
DATE 17 MAY 2019

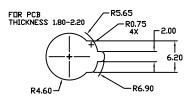
MOUNTING HOLE POSITION

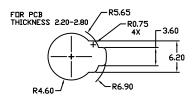
	HOLE POSITION			PIN POSITION	
PIN	Х	Υ	PIN	Х	Υ
1	-16.75	-11.25	12	16.75	6.55
2	-13.85	-11.25	13	15.25	11.25
3	-8.45	-11.25	14	12.35	11.25
4	-5.95	-11.25	15	5.35	11.25
5	2.85	-11.25	16	2.85	11.25
6	5.35	-11.25	17	-5.95	11.25
7	12.35	-11.25	18	-8.45	11.25
8	15.25	-11.25	19	-13.85	11.25
9	16.75	-6.55	20	-16.75	11.25
10	16.75	-4.05	21	-16.75	3.25
11	16.75	4.05	22	-16.75	-3.25



RECOMMENDED MOUNTING PATTERN

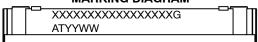






MOUNTING HOLE DETAIL

GENERIC MARKING DIAGRAM*



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:	PIM22 55x32.5 (PRESSFIT PIN)		PAGE 2 OF 2		

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