

NXH100B120H3Q0

Dual Boost Power Module

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

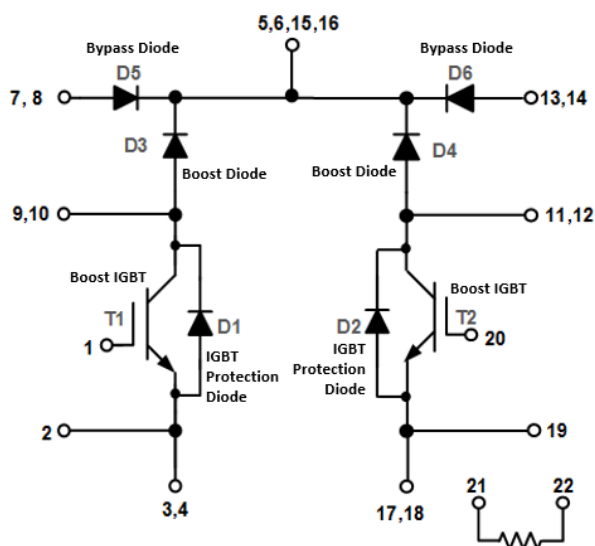
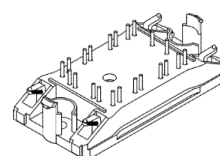


Figure 1. NXH100B120H3Q0xG Schematic Diagram

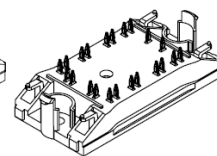


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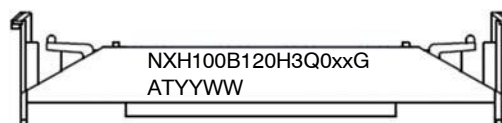


**Q0BOOST
CASE 180AJ
SOLDER PINS**



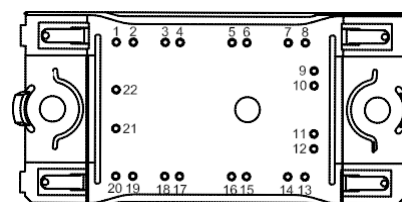
**Q0BOOST
CASE 180BF
PRESS-FIT PINS**

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.

NXH100B120H3Q0

ABSOLUTE MAXIMUM RATINGS (Note 1) $T_J = 25^{\circ}\text{C}$ 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 @ $T_C = 80^{\circ}\text{C}$ ($T_J = 175^{\circ}\text{C}$)	I_C	50	A
Pulsed Collector Current ($T_J = 175^{\circ}\text{C}$)	I_{Cpulse}	150	A
Maximum Power Dissipation @ $T_C = 80^{\circ}\text{C}$ ($T_J = 175^{\circ}\text{C}$)	P_{tot}	186	W
Minimum Operating Junction Temperature	T_{JMIN}	-40	$^{\circ}\text{C}$
Maximum Operating Junction Temperature	T_{JMAX}	150	$^{\circ}\text{C}$

BOOST DIODE

Peak Repetitive Reverse Voltage	V_{RRM}	1200	V
Continuous Forward Current @ $T_C = 80^{\circ}\text{C}$ ($T_J = 175^{\circ}\text{C}$)	I_F	20	A
Maximum Power Dissipation @ $T_C = 80^{\circ}\text{C}$ ($T_J = 175^{\circ}\text{C}$)	P_{tot}	114	W
Surge Forward Current (60 Hz single half–sine wave)	I_{FSM}	60	A
I^2t – value (60 Hz single half–sine wave)	I^2t	15	A^2s
Minimum Operating Junction Temperature	T_{JMIN}	-40	$^{\circ}\text{C}$
Maximum Operating Junction Temperature	T_{JMAX}	150	$^{\circ}\text{C}$

BYPASS DIODE / IGBT PROTECTION DIODE

Peak Repetitive Reverse Voltage	V_{RRM}	1600	V
Continuous Forward Current @ $T_C = 80^{\circ}\text{C}$ ($T_J = 175^{\circ}\text{C}$)	I_F	25	A
Repetitive Peak Forward Current ($T_J = 175^{\circ}\text{C}$, t_p limited by T_{Jmax})	I_{FRM}	75	A
Power Dissipation Per Diode @ $T_C = 80^{\circ}\text{C}$ ($T_J = 175^{\circ}\text{C}$)	P_{tot}	91	W
Minimum Operating Junction Temperature	T_{JMIN}	-40	$^{\circ}\text{C}$
Maximum Operating Junction Temperature	T_{JMAX}	150	$^{\circ}\text{C}$

THERMAL PROPERTIES

Storage Temperature range	T_{stg}	-40 to 125	$^{\circ}\text{C}$
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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.

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

RECOMMENDED OPERATING RANGES

Rating	Symbol	Min	Max	Unit
Module Operating Junction Temperature	T_J	-40	150	$^{\circ}\text{C}$

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.

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ELECTRICAL CHARACTERISTICS $T_J = 25^\circ\text{C}$ Unless Otherwise Noted

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
BOOST IGBT CHARACTERISTICS						
Collector–Emitter Cutoff Current	$V_{GE} = 0\text{ V}, V_{CE} = 1200\text{ V}$	I_{CES}	–	–	200	μA
Collector–Emitter Saturation Voltage	$V_{GE} = 15\text{ V}, I_C = 50\text{ A}, T_J = 25^\circ\text{C}$	$V_{CE(sat)}$	–	1.77	2.3	V
	$V_{GE} = 15\text{ V}, I_C = 50\text{ A}, T_J = 150^\circ\text{C}$		–	1.93	–	
Gate–Emitter Threshold Voltage	$V_{GE} = V_{CE}, I_C = 1\text{ mA}$	$V_{GE(TH)}$	4.6	5.27	6.5	V
Gate Leakage Current	$V_{GE} = 20\text{ V}, V_{CE} = 0\text{ V}$	I_{GES}	–	–	800	nA
Turn–on Delay Time	$T_J = 25^\circ\text{C}$ $V_{CE} = 700\text{ V}, I_C = 50\text{ A}, V_{GE} = \pm 15\text{ V},$ $R_G = 4\ \Omega$	$t_{d(on)}$	–	44	–	ns
Rise Time		t_r	–	16	–	
Turn–off Delay Time		$t_{d(off)}$	–	203	–	
Fall Time		t_f	–	23	–	
Turn–on Switching Loss per Pulse		E_{on}	–	700	–	
Turn–off Switching Loss per Pulse		E_{off}	–	1500	–	
Turn–on Delay Time	$T_J = 125^\circ\text{C}$ $V_{CE} = 700\text{ V}, I_C = 50\text{ A}, V_{GE} = \pm 15\text{ V},$ $R_G = 4\ \Omega$	$t_{d(on)}$	–	43	–	ns
Rise Time		t_r	–	18	–	
Turn–off Delay Time		$t_{d(off)}$	–	233	–	
Fall Time		t_f	–	58	–	
Turn–on Switching Loss per Pulse		E_{on}	–	800	–	
Turn–off Switching Loss per Pulse		E_{off}	–	2600	–	
Input Capacitance	$V_{CE} = 20\text{ V}, V_{GE} = 0\text{ V}, f = 10\text{ kHz}$	C_{ies}	–	9075	–	pF
Output Capacitance		C_{oes}	–	173	–	
Reverse Transfer Capacitance		C_{res}	–	147	–	
Total Gate Charge	$V_{CE} = 600\text{ V}, I_C = 40\text{ A}, V_{GE} = 15\text{ V}$	Q_g	–	409	–	nC
Thermal Resistance – chip–to–case		R_{thJC}	–	0.51	–	$^\circ\text{C/W}$
Thermal Resistance – chip–to–heatsink	Thermal grease, Thickness $\approx 100\ \mu\text{m}$, $\lambda = 2.87\text{ W/mK}$	R_{thJH}	–	0.82	–	$^\circ\text{C/W}$

BOOST DIODE CHARACTERISTICS

Diode Reverse Leakage Current	$V_R = 1200\text{ V}$	I_R	–	–	300	μA
Diode Forward Voltage	$I_F = 20\text{ A}, T_J = 25^\circ\text{C}$	V_F	–	1.44	1.8	V
	$I_F = 20\text{ A}, T_J = 150^\circ\text{C}$		–	1.93	–	
Reverse Recovery Time	$T_J = 25^\circ\text{C}$ $V_{CE} = 700\text{ V}, I_C = 50\text{ A}, V_{GE} = \pm 15\text{ V},$ $R_G = 4\ \Omega$	t_{rr}	–	15	–	ns
Reverse Recovery Charge		Q_{rr}	–	108	–	nC
Peak Reverse Recovery Current		I_{RRM}	–	11	–	A
Peak Rate of Fall of Recovery Current		di/dt	–	1500	–	A/ μs
Reverse Recovery Energy		E_{rr}	–	20	–	μJ
Reverse Recovery Time	$T_J = 125^\circ\text{C}$ $V_{CE} = 700\text{ V}, I_C = 50\text{ A}, V_{GE} = \pm 15\text{ V},$ $R_G = 4\ \Omega$	t_{rr}	–	16	–	ns
Reverse Recovery Charge		Q_{rr}	–	115	–	nC
Peak Reverse Recovery Current		I_{RRM}	–	12	–	A
Peak Rate of Fall of Recovery Current		di/dt	–	1400	–	A/ μs
Reverse Recovery Energy		E_{rr}	–	22	–	μJ
Thermal Resistance – chip–to–case		R_{thJC}	–	0.83	–	$^\circ\text{C/W}$
Thermal Resistance – chip–to–heatsink	Thermal grease, Thickness $\approx 100\ \mu\text{m}$, $\lambda = 2.87\text{ W/mK}$	R_{thJH}	–	1.15	–	$^\circ\text{C/W}$

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ELECTRICAL CHARACTERISTICS $T_J = 25^\circ\text{C}$ Unless Otherwise Noted

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
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BYPASS DIODE/IGBT PROTECTION DIODE CHARACTERISTICS

Diode Reverse Leakage Current	$V_R = 1600\text{ V}$, $T_J = 25^\circ\text{C}$	I_R	—	—	100	μA
Diode Forward Voltage	$I_F = 25\text{ A}$, $T_J = 25^\circ\text{C}$	V_F	—	1.0	1.4	V
	$I_F = 25\text{ A}$, $T_J = 150^\circ\text{C}$		—	0.90	—	
Thermal Resistance – chip–to–case		R_{thJC}	—	1.04	—	$^\circ\text{C/W}$
Thermal Resistance – chip–to–heatsink	Thermal grease, Thickness $\approx 100\text{ }\mu\text{m}$, $\lambda = 2.87\text{ W/mK}$	R_{thJH}	—	1.41	—	$^\circ\text{C/W}$

THERMISTOR CHARACTERISTICS

Nominal resistance		R_{25}	—	22	—	$\text{k}\Omega$
Nominal resistance	$T = 100^\circ\text{C}$	R_{100}	—	1486	—	Ω
Deviation of R_{25}		$\Delta R/R$	–5	—	5	%
Power dissipation		P_D	—	200	—	mW
Power dissipation constant			—	2	—	mW/K
B–value	B(25/50), tolerance $\pm 3\%$		—	3950	—	K
B–value	B(25/100), tolerance $\pm 3\%$		—	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	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

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TYPICAL CHARACTERISTICS

Boost IGBT & IGBT Protection Diode / Bypass Diode

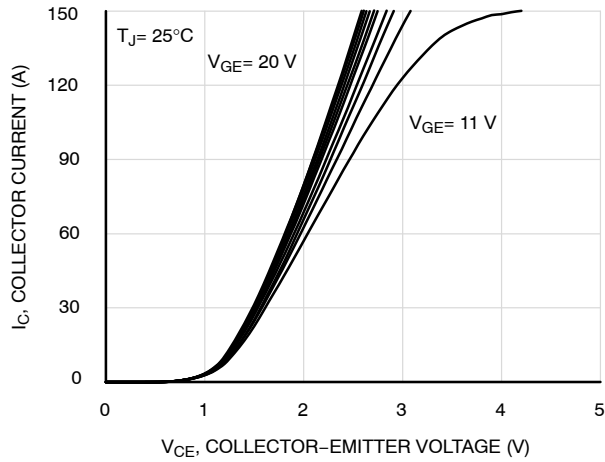


Figure 2. IGBT Typical Output Characteristics

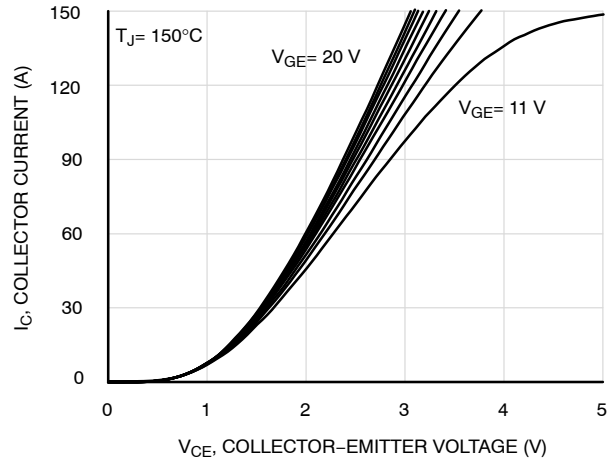


Figure 3. IGBT Typical Output Characteristics

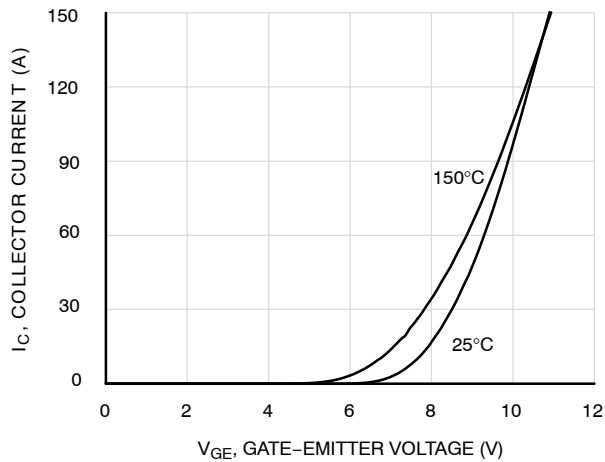


Figure 4. IGBT Typical Transfer Characteristics

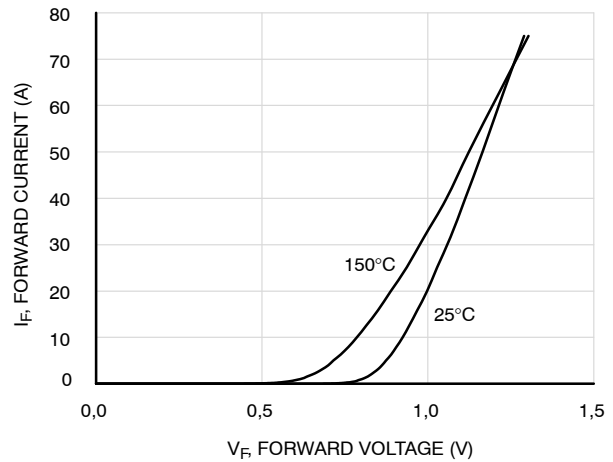


Figure 5. Diode Forward Characteristics

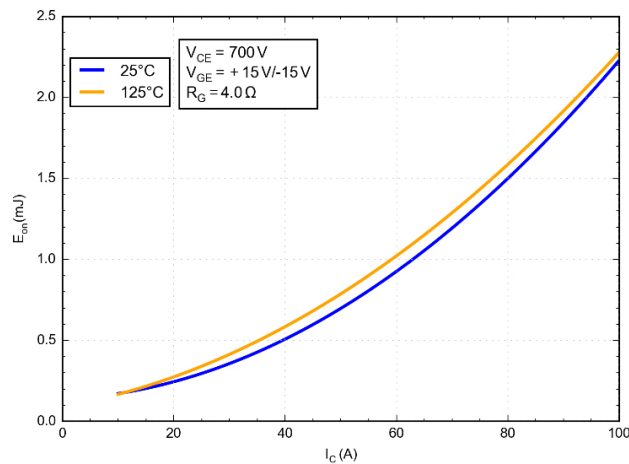


Figure 6. Typical Switching Loss Eon vs. IC

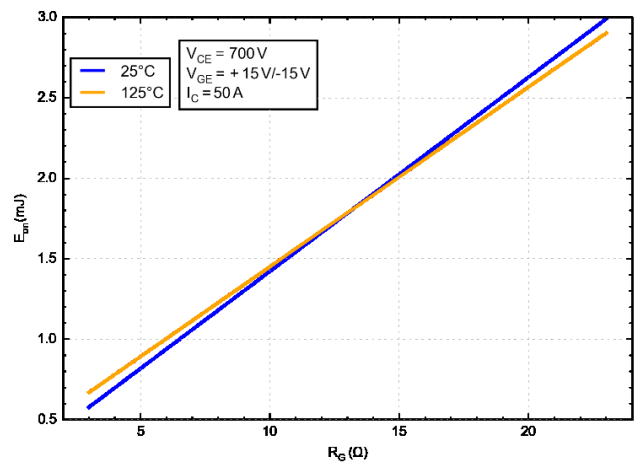


Figure 7. Typical Switching Loss Eon vs. RG

TYPICAL PERFORMANCE CHARACTERISTICS

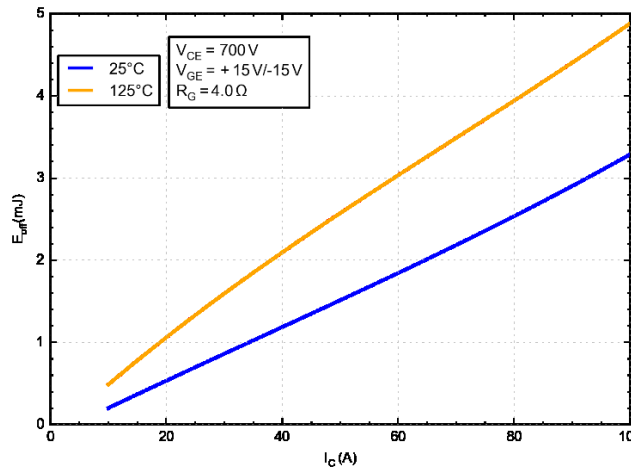


Figure 8. Typical Switching Loss Eoff vs. IC

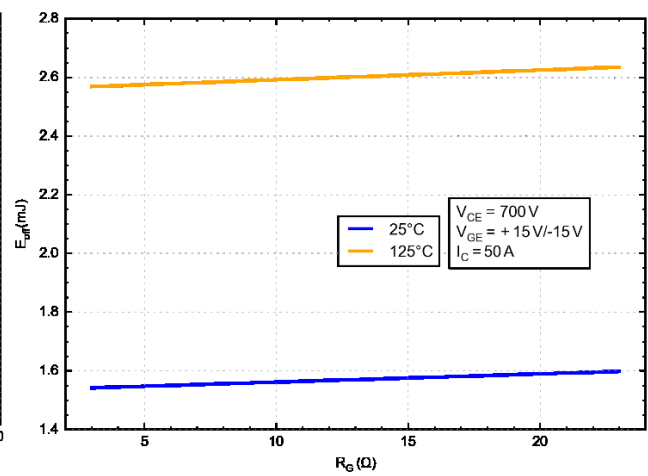


Figure 9. Typical Switching Loss Eoff vs. RG

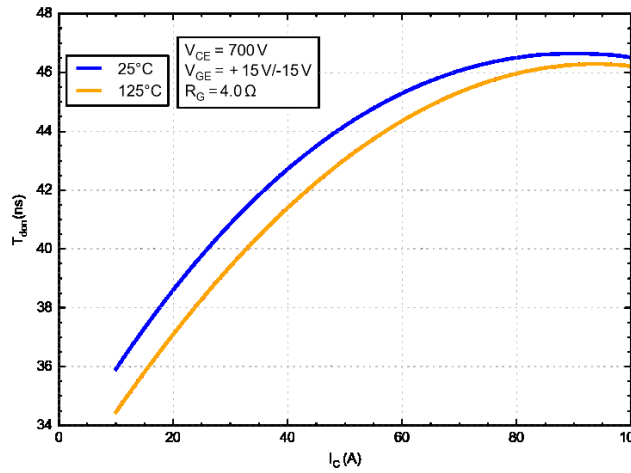


Figure 10. Typical Switching Time Tdon vs. IC

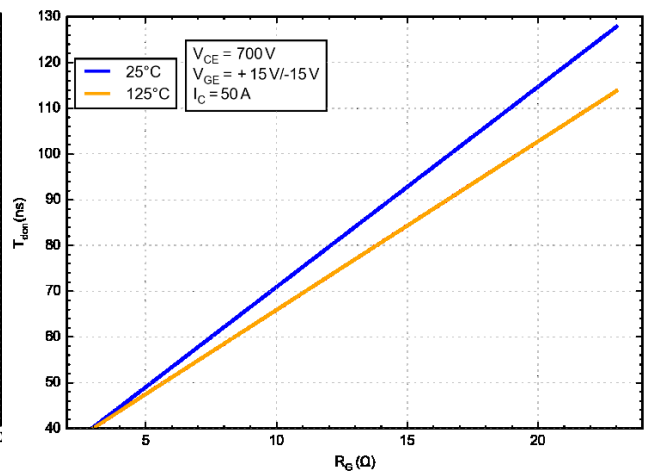


Figure 11. Typical Switching Time Tdon vs. RG

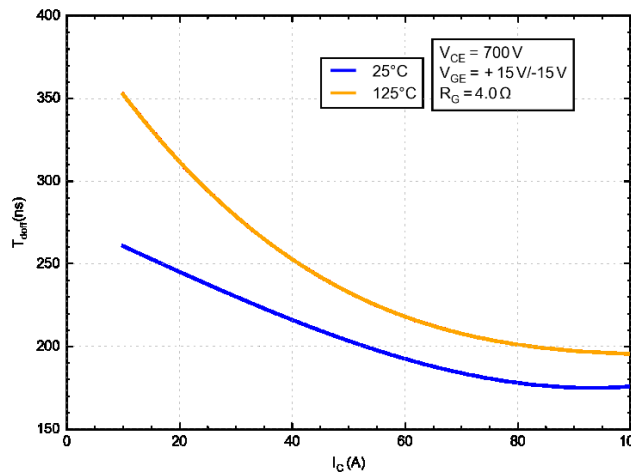


Figure 12. Typical Switching Time Tdoff vs. IC

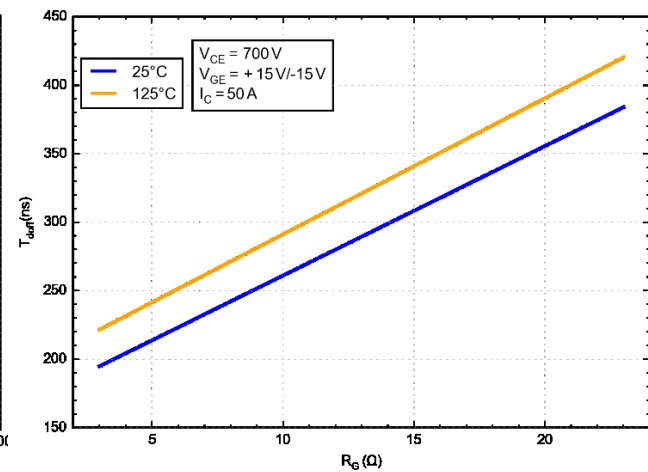


Figure 13. Typical Switching Time Tdoff vs. RG

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TYPICAL PERFORMANCE CHARACTERISTICS

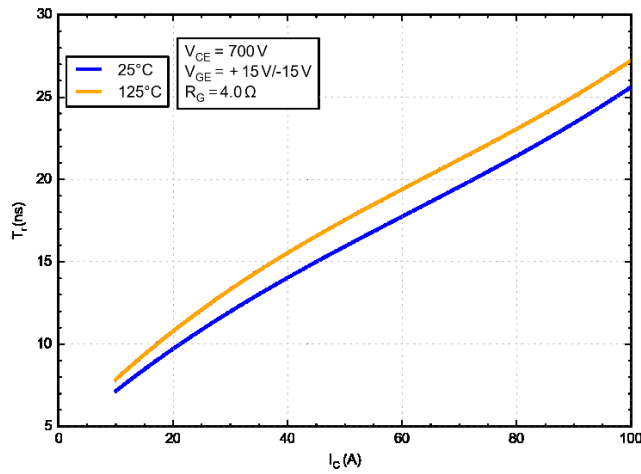


Figure 14. Typical Switching Time Tron vs. IC

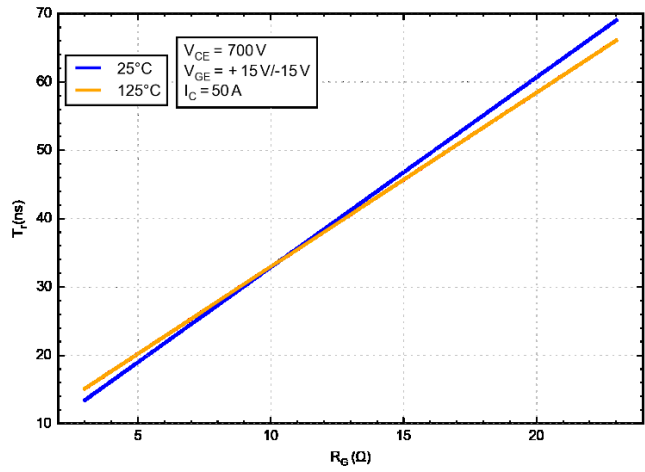


Figure 15. Typical Switching Time Tron vs. RG

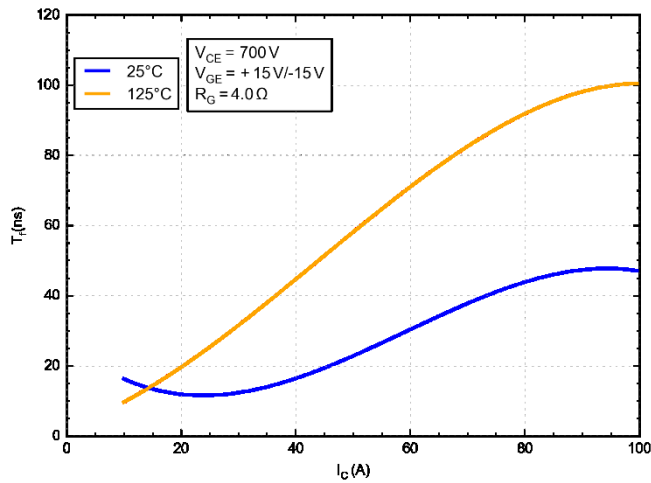


Figure 16. Typical Switching Time Tf vs. IC

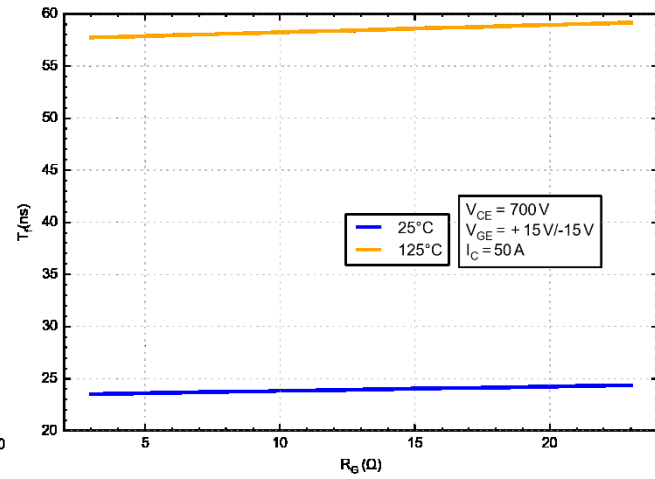


Figure 17. Typical Switching Time Tf vs. RG

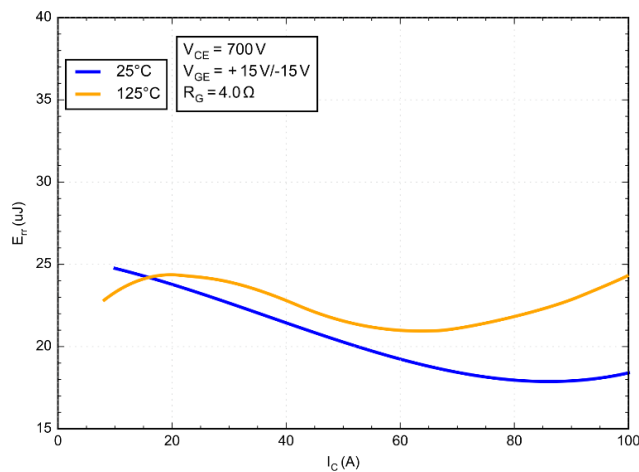


Figure 18. Typical Reverse Recovery Energy vs. IC

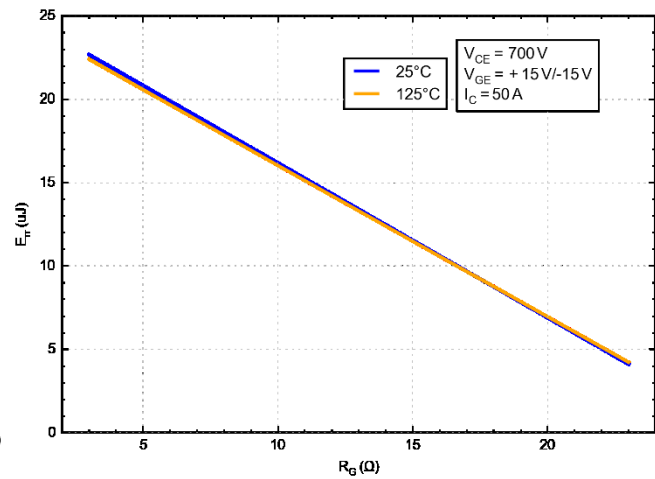


Figure 19. Typical Reverse Recovery Energy vs. RG

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TYPICAL PERFORMANCE CHARACTERISTICS

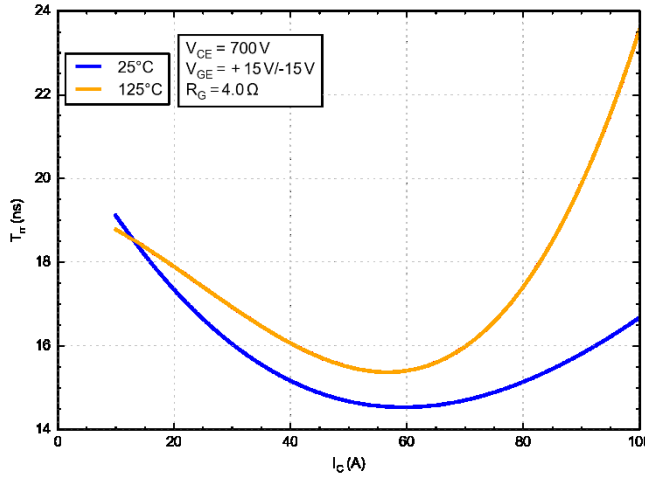


Figure 20. Typical Reverse Recovery Time vs. IC

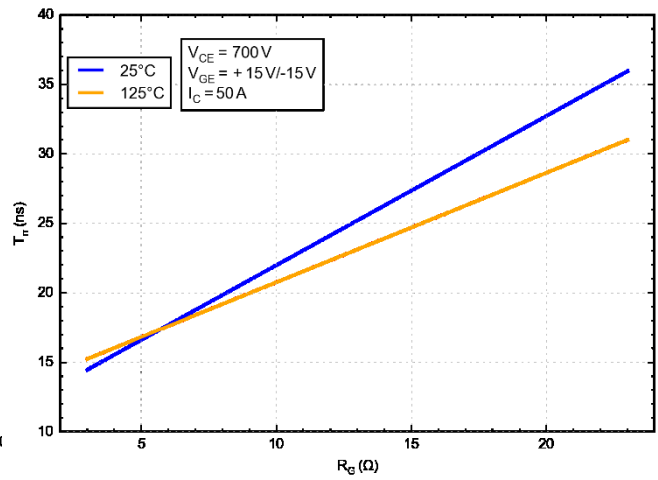


Figure 21. Typical Reverse Recovery Time vs. RG

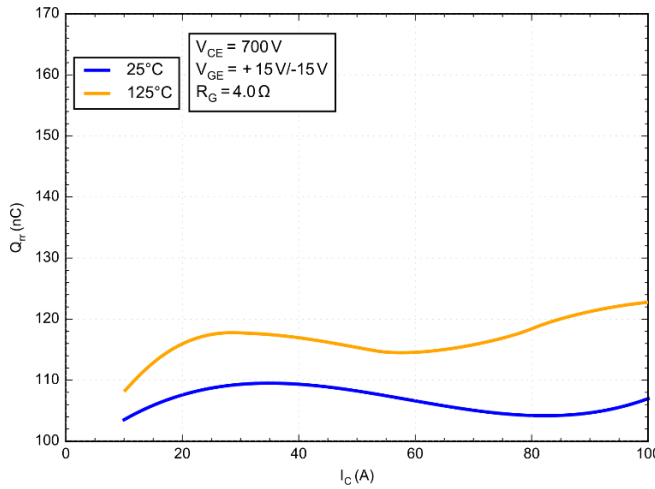


Figure 22. Typical Reverse Recovery Charge vs. IC

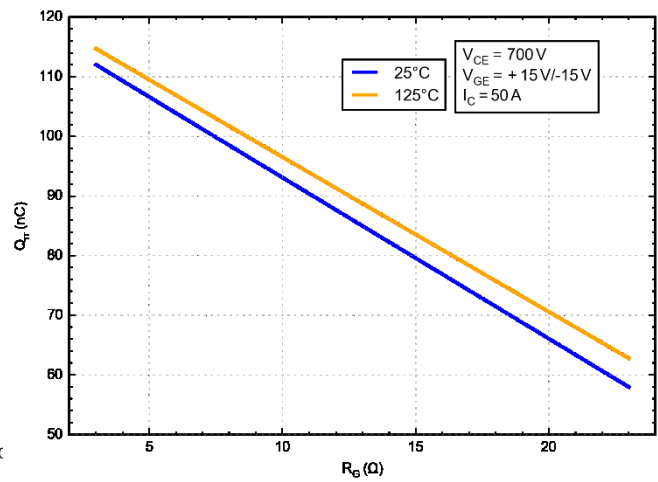


Figure 23. Typical Reverse Recovery Charge vs. RG

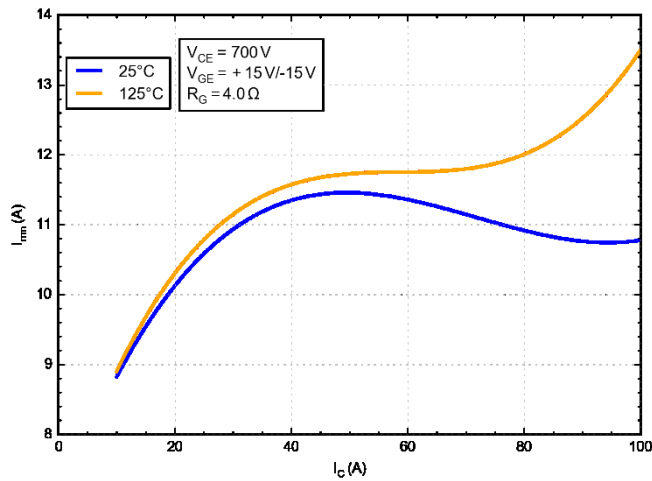


Figure 24. Typical Reverse Recovery Current vs. IC

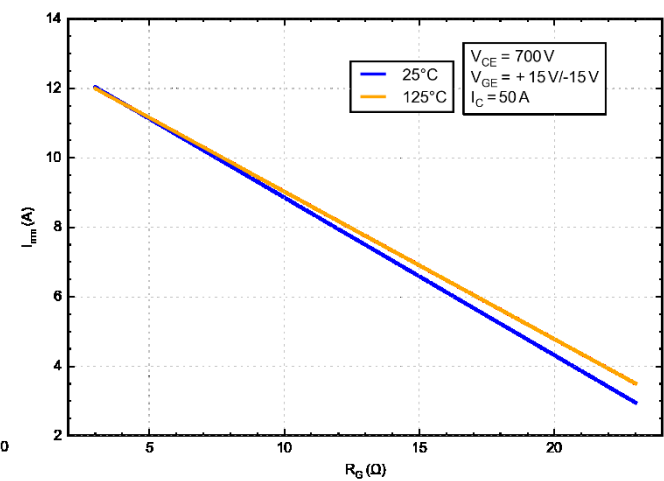


Figure 25. Typical Reverse Recovery Current vs. RG

NXH100B120H3Q0

TYPICAL PERFORMANCE CHARACTERISTICS

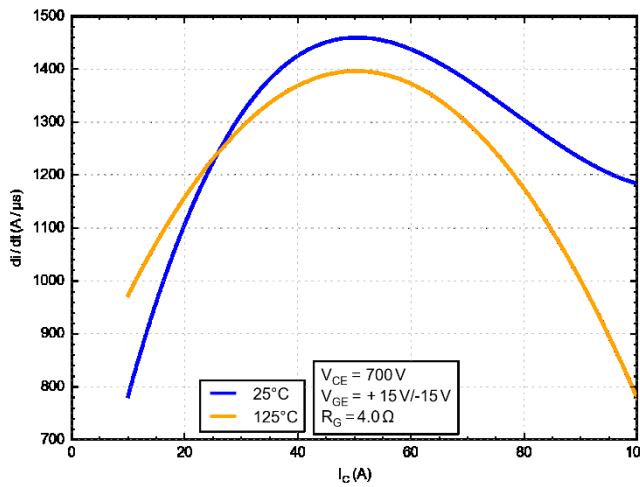


Figure 26. Typical di/dt vs. IC

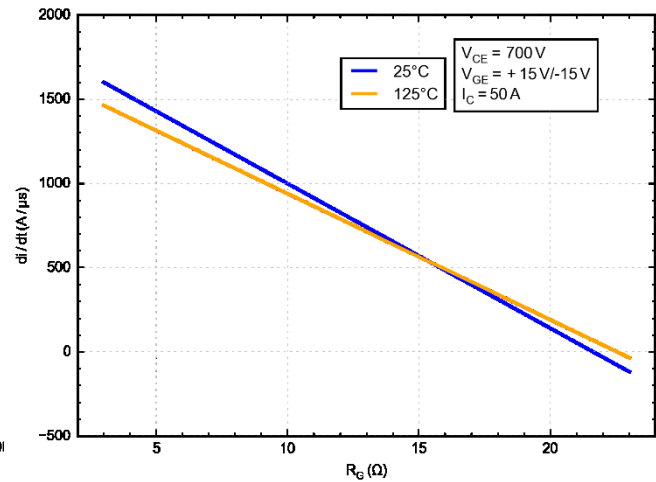


Figure 27. Typical di/dt vs. RG

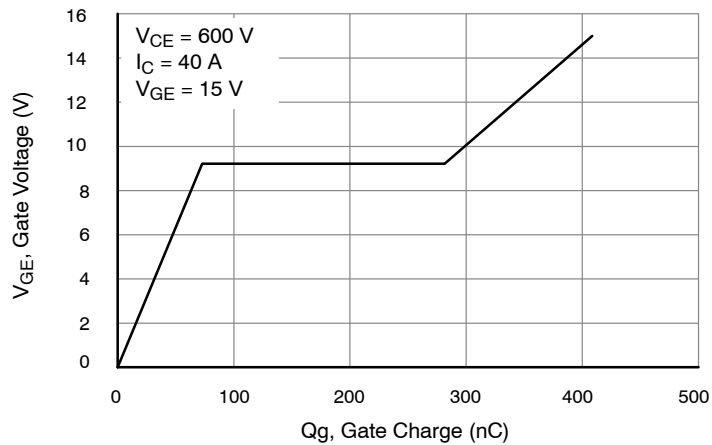


Figure 28. Gate Voltage vs. Gate Charge

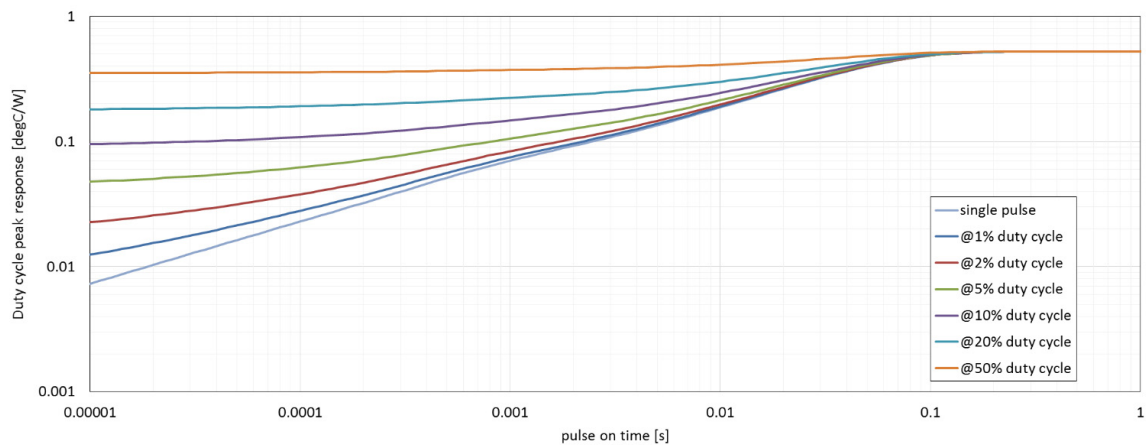


Figure 29. IGBT Junction-to-Case Transient Thermal Impedance

NXH100B120H3Q0

TYPICAL PERFORMANCE CHARACTERISTICS – Boost Diode

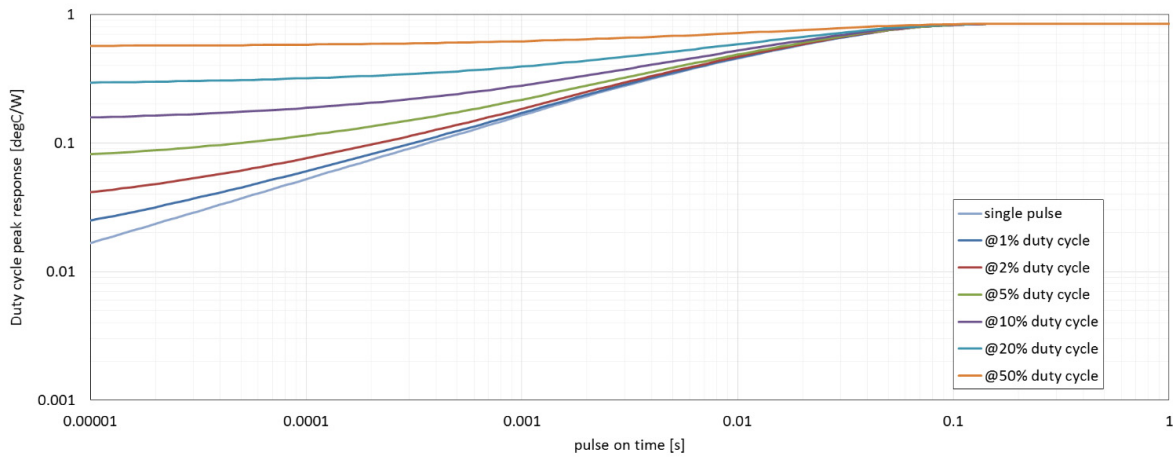


Figure 30. Diode Junction-to-Case Transient Thermal Impedance

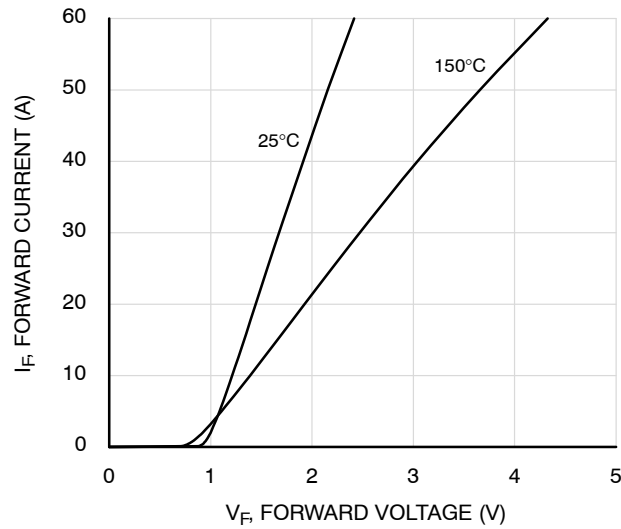


Figure 31. Diode Forward Characteristic

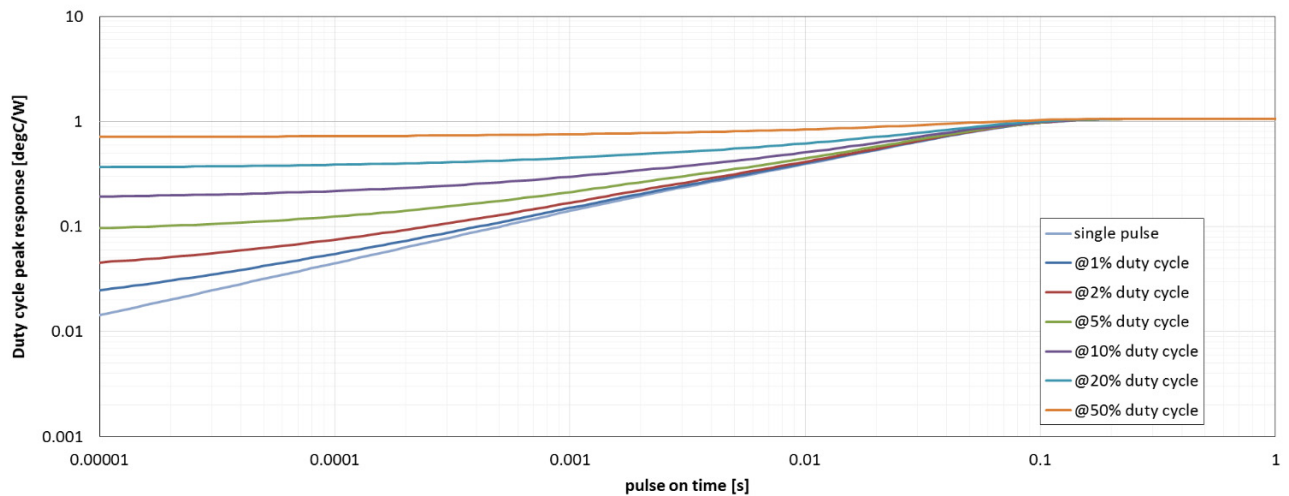


Figure TBD: Transient Thermal Impedance

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

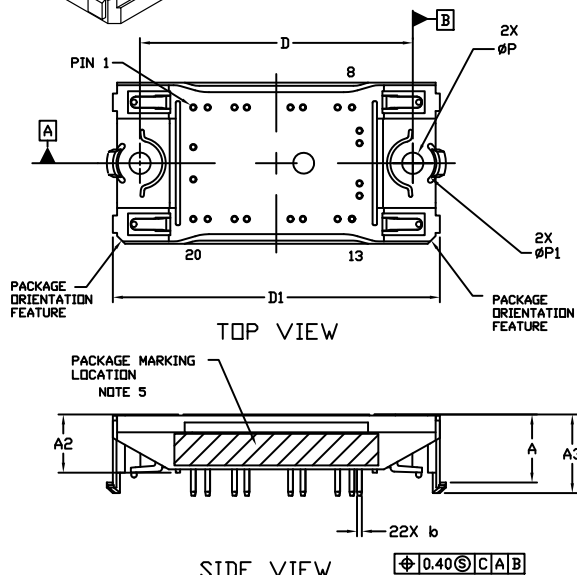
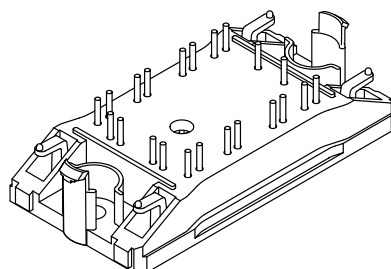
MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS

ON Semiconductor®



PIM22, 55x32.5 / Q0BOOST CASE 180AJ ISSUE B

DATE 08 NOV 2017



NOTES:

1. DIMENSIONING AND TOLERANCING PER. ASME Y14.5M, 2009.
2. CONTROLLING DIMENSION: MILLIMETERS
3. DIMENSION b 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.
5. PACKAGE MARKING IS LOCATED AS SHOWN ON THE SIDE OPPOSITE THE PACKAGE ORIENTATION FEATURES.

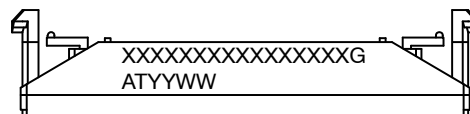
DIM	MILLIMETERS	
	MIN.	NDM.
A	13.50	13.90
A1	0.10	0.30
A2	11.50	11.90
A3	15.65	16.05
A4	16.35	REF
b	0.95	1.05
D	54.80	55.20
D1	65.60	66.20
E	32.20	32.80
P	4.20	4.40
P1	8.90	9.10

MOUNTING HOLE POSITION

NOTE 4

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

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code
G = Pb-Free Package
AT = Assembly & Test Site Code
YYWW = Year and Work Week Code

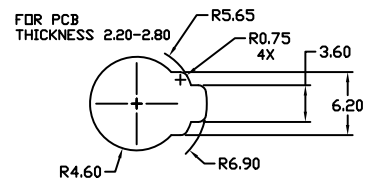
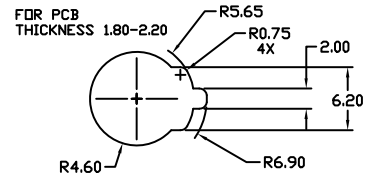
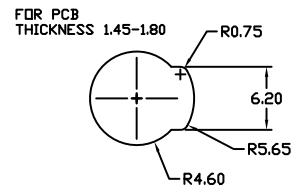
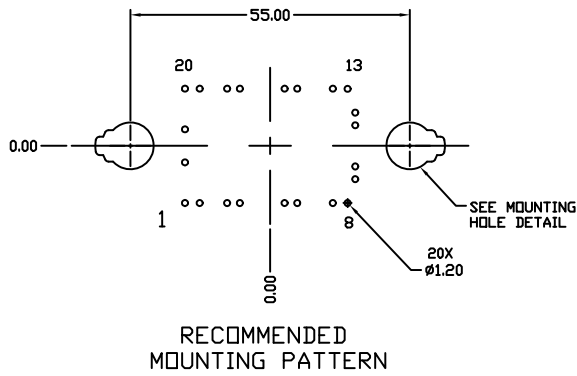
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	PIM22 55X32.5 / Q0BOOST (SOLDER PIN)	PAGE 1 OF 2

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PIM22, 55x32.5 / Q0BOOST
CASE 180AJ
ISSUE B

DATE 08 NOV 2017



MOUNTING HOLE DETAIL

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DESCRIPTION:	PIM22 55X32.5 / Q0BOOST (SOLDER PIN)	PAGE 2 OF 2

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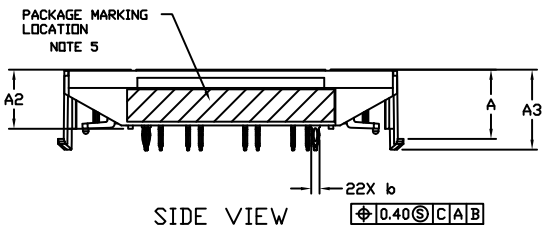
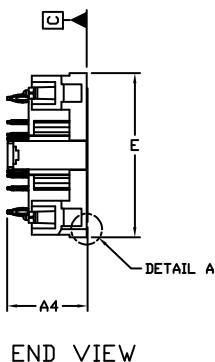
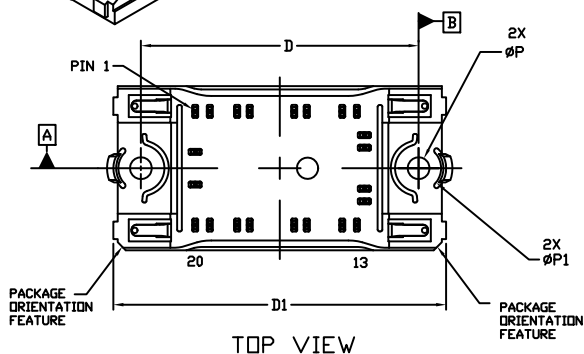
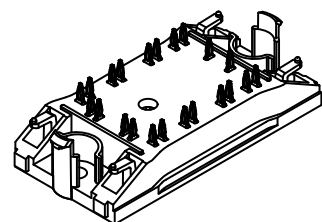
MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS

ON Semiconductor®



PIM22 55x32.5 (PRESSFIT PIN) CASE 180BF ISSUE O

DATE 21 MAY 2019



NOTE 4

PIN	PIN POSITION		PIN	PIN POSITION	
	X	Y		X	Y
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

NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- CONTROLLING DIMENSION: MILLIMETERS
- DIMENSION *b* 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 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.

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	13.50	13.70	13.90
A1	0.10	0.20	0.30
A2	11.50	11.70	11.90
A3	15.65	15.85	16.05
A4	15.95 REF		
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
P	4.20	4.30	4.40
P1	8.90	9.00	9.10

DOCUMENT NUMBER: 98AON07824H

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DESCRIPTION: PIM22 55x32.5 (PRESSFIT PIN)

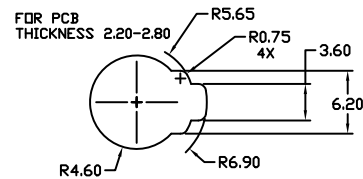
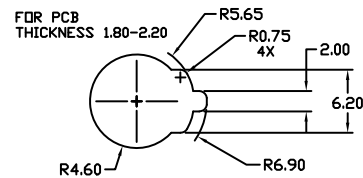
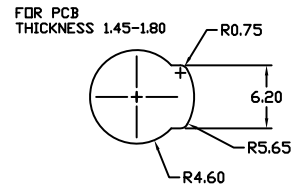
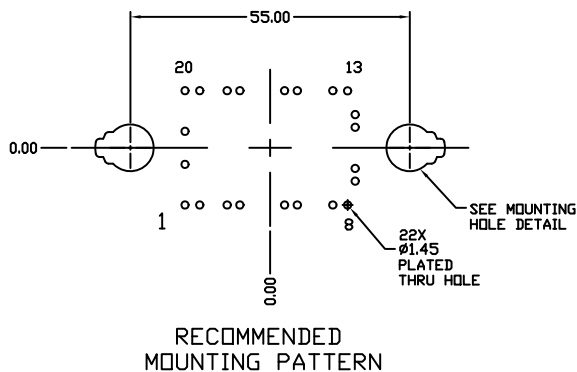
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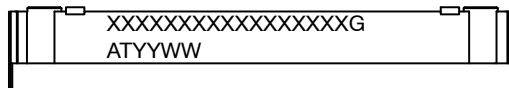
DATE 17 MAY 2019

MOUNTING HOLE POSITION

HOLE POSITION			PIN POSITION		
PIN	X	Y	PIN	X	Y
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



GENERIC MARKING DIAGRAM*



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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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