

Product Bulletin

Document #:PB24257ZA Issue Date:14 Nov 2021

Title of Change:	Update 820A and 950A Single Side Direct Cooling 6-Pack Power Module data sheet			
Effective date:	14 Nov 2021			
Contact information:	Contact your local onsemi Sales Office or SayMeng.Lim@onsemi.com			
Type of notification:	This Product Bulletin is for notification purposes only. onsemi will proceed with implementation of this change upon publication of this Product Bulletin.			
Change Category:	Datasheet Change			
Change Sub-Category(s):	Datasheet/Product Doc change			
Sites Affected:				
onsemi Sites		External Foundry/Subcon Sites		
None		None		

Description and Purpose:

This Product Bulletin is to inform that, onsemi is updating the datasheet in the affected part list with the following change and justification.

1. **Change description**: Remove the maximum di/dt (IGBT) & maximum dv/dt (IGBT) from the *Absolute Maximum Rating* Table (Page 3) **Purpose**: Guidance on maximum dl/dt and dV/dt slew rates available in Application Notes upon request.

	Before Change Description				After Change Description				
	With the maximum di/dt and maximum dv/dt ABSOLUTE MAXIMUM RATINGS (T _{rd} = 25°C, Unless Otherwise Specified)				Without the maximum di/dt and maximum dv/dt ABSOLUTE MAXIMUM RATINGS (T _{rd} = 25°C, Unless Otherwise Specified)				
1	Symbol	Parameter	Rating	Unit		Symbol	Parameter	Rating	Unit
	IGBT				IGBT	Parameter	rming	- Oint	
	V _{CES}	Collector to Emitter Voltage	750	V	l r	V _{CES}	Collector to Emitter Voltage	750	I v
Datasheet	V _{GES}	Gate to Emitter Voltage	±20	V			Gate to Emitter Voltage	±20	· ·
i	Icn	Implemented Collector Current	820	A		V _{GES}			L v
	I _{C nom}	Continuous DC Collector Current, T _{vj} = 175°C, T _F = 65°C, Ref. Heatsink	600 (Note 2)	A		Icn	Implemented Collector Current	820	Α
	ICRM	Pulsed Collector Current @ V _{GE} = 15 V, t _p =1 ms	1640	A		I _{C nom}	Continuous DC Collector Current, T _{vj} = 175°C, T _F = 65°C, Ref. Heatsink	600 (Note 2)	A
İ	Ptot	Total Power Dissipation T _{vi} = 175°C, T _F = 65°C, Ref. Heatsink	1000	w		ICRM	Pulsed Collector Current @ V _{GE} = 15 V, t _p =1 ms	1640	A
	di/dt _{IGBT}	Meximum di/dt during turning-on of IGBT, $T_{vj} = 25^{\circ}$ $T_{vj} = 150^{\circ}$		A/ns		P _{tot}	Total Power Dissipation T _{vj} = 175°C, T _F = 65°C, Ref. Heatsink	1000	w
İ							•		
	dv/dt _{IGBT}	Meximum dv/dt during turning-off of IGBT, $T_{M} = 25^{\circ}$ $T_{M} = 150^{\circ}$	12	V/ns	1				
	L	I N = 120		ш					
i					•				
İ									

List of Affected Standard Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

NVH950S75L4SPC	NVH950S75L4SPB	NVH820S75L4SPD
NVH820S75L4SPB	NVH820S75L4SPA	

TEM001797 Rev. D Page 1 of 1



Appendix A: Changed Products

PCN#: PB24257ZA

Issue Date: Nov 14, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NVH820S75L4SPB		NA		