

Product Bulletin

Document # : PB21657Z Issue Date: 28 February 2017

т	tle of Change:	NCV47821	datasheet up	ndate						
Effective date:		28 February 2017								
Contact information:		Contact your local ON Semiconductor Sales Office or < <u>Joyce.Keiser@onsemi.com</u> >								
Type of notification:		ON Semiconductor will consider this change accepted.								
Change category:		☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other <u>Datasheet update</u>								
	Change Sub-Category(s): Manufacturing Site Change Manufacturing Process Cha				☑ Datasheet/Product Doc change☐ Shipping/Packaging/Marking☐ Other:					
Sites Affected: ☐ All site(s) ☐ not applicabl			ole ON Semiconductor site(s):			☐ External Foundry/Subcon site(s)				
D	Description and Purpose:									
Adding a new parameter lout/lcso current ratio for the lout1,2 = 1 - 10mA range to the datasheet. So far the lout/lcso current ratio has only been guaranteed for a range of lout1,2 = 10 - 300mA. The new lout/lcso current ratio @ lout1,2=1-10mA parameter will be guaranteed by design only (note11 in the datasheet). NCV47821/D (January, 2017 – Rev. 2):										
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	OUTPUT CURRENT SENSE					0.440	0.55	0.050		
	CSO Voltage Level at Current	Limit	V _{out1,2} = 0.9 (V _{out_nom1,2}	x V _{out_nom1,2} , = 5 V) R _{CSO1,2} = 1 kΩ	V _{CSO_Ilim1,2}	2.448 (-4%)	2.55	2.652 (+4%)	V	
	CSO Transient Voltage Level		C _{CSO1,2} = 4 I _{out1,2} pulse	.7 μF, R _{CSO1,2} = 1 kΩ from 10 mA to 300 mA, tr = 1 μs	V _{CSO1,2}	-	-	3.3	V	
	Output Current to CSO Curren (Note 11, 12)	nt Ratio	V _{CSO1,2} = 2 (V _{out_nom1,2}	V, I _{out1,2} = 1 mA to 10 mA = 5 V)	I _{out1,2} / I _{CSO1,2}	- (-5%)	98	- (+5%)	=	
	Output Current to CSO Current (Note 12)	nt Ratio	V _{CSO1,2} = 2 (V _{out_nom1,2}	V, I _{out1,2} = 10 mA to 300 mA = 5 V)	I _{out1,2} / I _{CSO1,2}	- (-5%)	100	- (+5%)	-	
	CSO Current at no Load Curre	ent	V _{CSO1,2} = 0 (V _{out_nom1,2}	V, I _{out1,2} = 0 mA, = 5 V)	I _{CSO_off1,2}	-	ı	10	μА	
Th	performance may not be indic 8. Performance guaranteed of cycle pulse techniques are 9. Minimum input voltage V _{in} R _{n1} and R _{n2} accuracy. 10. Measured when the outpu 11. Values based on design at 12. Not guaranteed in dropout	D. Measured when the output voltage V _{out1,2} has dropped by 2% of V _{out_nom1,2} from the nominal valued obtained at V _{in} = V _{out1,2} + 8.5 V Values based on design and/or characterization.								
List of affected Standard Parts: NCV47821PAAJR2G										

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