

PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000585 General

Date: 11/13/2019 P1/3

Semtech Corporation, 200 Flynn Road, Camarillo CA 93012				
☐ Semtech Canada Corporation, 4281 Harvester Road, Burlington, Ontario L7L 5M4 Canada				
Semtech Irvine, 5141 California Ave., Suite 100, Irvine CA 92617				
Semtech Neuchatel Sarl, Route des Gouttes d'O				
Semtech Bristol - EMEA Limited, Block B, St Jan	nes Court, Great Park Road, Bristol BS32 4QJ, UK			
Semtech Corpus Christi SA de CV, Carretera Matamorros Edificio 7, Reynosa, Tamaulipas, Mexico 88780				
☐ Semtech Plano, 1101 Resource Drive, Suite 121	, Plano TX 75074			
Cha	ange Details			
Part Number(s) Affected:	Customer Part Number(s) Affected: ☐ N/A			
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 SC4212MLTRT 				
Description, Purpose and Effect of Change	ge:			
Semtech is changing the VIN parameter of the SC4212MLTRT due to a supply chain issue. This change id sue to a				
fab process only able to support VIN = 1.6V. This parameter change affects the device Vdropout and LoadReg.				
These tests use VIN = 1.5V and 1A load.				
The datasheet defines the dropout at 1A load to be 400mV (room temperature) and with a guardband that 375mV				
at Final Test. We pull the rejects and noticed that the Vout at 1A full load recover by 200mV when we start				
increasing the VIN by at least 1.55V.				
After reviewing the fab capability, we found that the fab process is not really capable to run at 1.5V. Thus, we				
propose the change.				
FF 22				
Please note that we are holding all VIN modified product until approval of this PCN. There is <u>no</u> VIN 1.5V product				
available at all.				



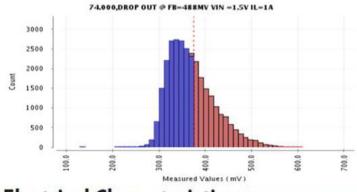
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Dropout Voltage ⁽¹⁾⁽²⁾		$I_{OUT} = 500 \text{mA}, T_A = 25^{\circ}\text{C}$	
	V	$I_{OUT} = 500 \text{mA}$	
	V _{DO}	$I_{OUT} = 1A, T_A = 25^{\circ}C$	
		I _{OUT} = 1A	



Electrical Characteristics

Unless specified otherwise: FB = VOUT, EN = VIN = 1.5V to 6V, I_{OUT} = 8mA to 1A, T_A = +25°C for Typ, -40 to +85 °C for Min and Max, T_J < 125°C.

Sample:

1	U	10	
	1.5	1.55V	
1st reading	1.4979	1.54881	
2nd reading	0.98707	1.19635	



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Change Classification	⊠ Major ☐ Minor	Impact to Form, Fit, Function	⊠ Yes □ No			
Impact to Data Sheet	⊠ Yes □ No	New Revision or Date	R5 / 11-13-2019 🔲 N/A			
Impact to Performance	e, Characteristics or Re	liability:				
Modification to VIN from 1.5V to 1.6V is a functional change to this part.						
Implementation Date	Upon customer approval	Work Week	1938			
Last Time Ship (LTS) Of unchanged product	No unchanged product available	Affecting Lot No. / Serial No. (SN)				
Sample Availability	1938	Qualification Report Availability				
Supporting Documents for Change Validation/Attachments: • SC4212MLTRT Product Data Sheet						
		Authority				
Semtech Business Unit:	POWER MANAGEM	POWER MANAGEMENT				
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FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support						