

Wafer top metal change and Auto Cu wire conversion for SOD123 CCR (Constant Current Regulator) Parts.					
16 Feb 2023 or earlier if approved by customer					
Contact your local onsemi Sales Office or <u>Jonney.Hu@onsemi.com</u>					
Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.					
Contact your local onsemi Sales Office or Nicky.Siu@onsemi.com					
This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <u>PCN.Support@onsemi.com</u>					
Changed material will be identified by date code.					
Assembly Change, Wafer Fab Change					
Material Change					
onsemi Sites		External Foundry/Subcon Sites			
onsemi Leshan, China		None			
onsemi Roznov, Czech Republic					
Description and Purpose:					
onsemi is notifying customers of its use of 0.8 mil pd doped Cu wire for SOD123 CCR (Constant Current Regulator) parts at onsemi Leshan, China facility, while changing the wafer top metal from 15KA AlCu to 20KA AlCu. Upon the expiration of this PCN, these devices will be built with 0.8 mil pd doped Cu wire at the same site. Datasheet specifications and product electrical performance remain unchanged.					
Reliability Qualification and full electrical characterization over temperature has been performed					
Before Change Description		After Change Description			
0.8 mil Au wire		0.8mil pd doped Cu wire			
15KA AlCu		20KA AlCu			
	Parts. 16 Feb 2023 or earlier if approvious contact your local onsemi Sale Contact your local onsemi Sale Sample requests are to be subur PCN or Final PCN, for this chan Samples delivery timing will be packing/label requirements. Contact your local onsemi Sale This is a Final Product/Process prior to implementation of the onsemi will consider this change delivery of this notice. To do so the consemi suburger of the second sec	Parts. 16 Feb 2023 or earlier if approved by customer Contact your local onsemi Sales Office or Jonney.Hug Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 PCN or Final PCN, for this change. Samples delivery timing will be subject to request da packing/label requirements. Contact your local onsemi Sales Office or Nicky.Siu@ This is a Final Product/Process Change Notification (Fprior to implementation of the change. onsemi will consider this change accepted, unless an delivery of this notice. To do so, contact PCN.Support Changed material will be identified by date code. Assembly Change, Wafer Fab Change Material Change e of 0.8 mil pd doped Cu wire for SOD123 CCR (Constant netal from 15KA AlCu to 20KA AlCu. devices will be built with 0.8 mil pd doped Cu wire at t unchanged. cal characterization over temperature has been perfort 0.8 mil Au wire			

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Final Product/Process Change Notification Document #: FPCN24793X Issue Date: 09 Nov 2022

Reliability Data Summary:

QV DEVICE NAME: NSV45030AT1G RMS: L85786 PACKAGE: SOD123

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
тс	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/30
SD	JSTD002	Ta = 245°C, 5 sec		0/30

Electrical Characteristics Summary:

Three temperature characterization and ESD performance has been performed, Electrical characterization result is available upon request.

List of Affected 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**.

Part Number	Qualification Vehicle
NSI45015WT1G	NSV45030AT1G
NSI45020AT1G	NSV45030AT1G
NSI50010YT1G	NSV45030AT1G
NSI45030T1G	NSV45030AT1G
NSI45030AT1G	NSV45030AT1G
NSI45025T1G	NSV45030AT1G
NSI45025AT1G	NSV45030AT1G
NSI45020T1G	NSV45030AT1G