



Final Product/Process Change Notification

Document #:FPCN24896XA

Issue Date:23 Apr 2024

Title of Change:	The addition of JCET, China as an assembly and test operation for the DPAK package (Case Outline 369C) to provide capacity flexibility.
Proposed First Ship date:	30 Jul 2024 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Milos.Dvorak@onsemi.com
PCN Samples Contact:	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.
Additional Reliability Data:	Contact your local onsemi Sales Office or MohdAzizi.Azman@onsemi.com
Type of Notification:	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 PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Changed material can be identified by assembly plant code
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Addition, Material Change
Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
None	JCET, China

Description and Purpose:

onsemi would like to inform our customers of the addition of JCET, China for assembly and test of the DPAK package (Case Outline 369C) to enable capacity flexibility. Product bill of material changes are shown in the table below, and all products continue to meet electrical specification requirements listed in the product datasheet. This change is for capacity flexibility, so future deliveries will be sourced from JCET, China, or any of the previously qualified assembly & test locations at the discretion of our supply chain.

	From	To
Assembly / Test Site	onsemi, Seremban, Malaysia	onsemi, Seremban, Malaysia JCET, China
Die Attach	Pb95Sn5	Pb95Sn5 Pb92.5Sn5Ag2.5
Mold Compound	GE 8000CH4ES G700HF	GE 8000CH4ES G700HF

There is no product marking change as a result of this change.



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Reliability Data Summary:

QV DEVICE NAME: NCV1117DT50RKG

RMS: S88309, S94782

PACKAGE: DPAK

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Low Temperature Storage Life	JESD22-A119	Ta= -40°C	48 hrs	0/231
Early Life Failure Rate	JESD22-A108	Ta=125°C, 100 % max rated Vcc	48 hrs	0/2400
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc	0/231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/90
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

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
LM2931ADT-5.0RKG	NCV1117DT50RKG
LM2931DT-5.0G	NCV1117DT50RKG
LP2950ACDT-3.3RG	NCV1117DT50RKG
LP2950ACDT-5.0G	NCV1117DT50RKG
LP2950ACDT-5RKG	NCV1117DT50RKG
LP2950CDT-3.0RKG	NCV1117DT50RKG
LP2950CDT-3.3G	NCV1117DT50RKG
LP2950CDT-3.3RKG	NCV1117DT50RKG
LP2950CDT-5.0G	NCV1117DT50RKG
LP2950CDT-5.0RKG	NCV1117DT50RKG
MC33269DT-3.3G	NCV1117DT50RKG



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MC33269DTRK-3.3G	NCV1117DT50RKG
MC33269DTRK-5.0G	NCV1117DT50RKG
MC33269DTRKG	NCV1117DT50RKG
MC33275DT-2.5RKG	NCV1117DT50RKG
MC33275DT-3.3RKG	NCV1117DT50RKG
MC33275DT-5.0RKG	NCV1117DT50RKG
NCP1117DT18RKG	NCV1117DT50RKG
NCP1117DT33G	NCV1117DT50RKG
NCP1117DT33RKG	NCV1117DT50RKG
NCP1117DT33T5G	NCV1117DT50RKG
NCP1117DT50G	NCV1117DT50RKG
NCP1117DT50RKG	NCV1117DT50RKG
NCP1117DTARKG	NCV1117DT50RKG
NCP1117IDT33T4G	NCV1117DT50RKG
NCP1117IDT50T4G	NCV1117DT50RKG
NCP1117IDTAT4G	NCV1117DT50RKG
NCP5501DT33RKG	NCV1117DT50RKG
NCP5501DT50RKG	NCV1117DT50RKG
LM317MABDTG	NCV1117DT50RKG
LM317MABDTRKG	NCV1117DT50RKG
LM317MADTRKG	NCV1117DT50RKG
LM317MBDTG	NCV1117DT50RKG
LM317MBDTRKG	NCV1117DT50RKG
LM317MDTG	NCV1117DT50RKG
LM317MDTRKG	NCV1117DT50RKG
MC78M05ABDTG	NCV1117DT50RKG
MC78M05ABDTRKG	NCV1117DT50RKG
MC78M05ACDTRKG	NCV1117DT50RKG
MC78M05BDTG	NCV1117DT50RKG
MC78M05BDTRKG	NCV1117DT50RKG
MC78M09CDTRKG	NCV1117DT50RKG
MC78M12ABDTRKG	NCV1117DT50RKG
MC78M12ACDTRKG	NCV1117DT50RKG
MC78M12BDTG	NCV1117DT50RKG



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MC78M12BDTRKG	NCV1117DT50RKG
MC78M12CDTG	NCV1117DT50RKG
MC78M12CDTRKG	NCV1117DT50RKG
MC78M15ABDTRKG	NCV1117DT50RKG
MC78M15ACDTRKG	NCV1117DT50RKG
MC78M15BDTRKG	NCV1117DT50RKG
MC78M15CDTG	NCV1117DT50RKG
MC78M15CDTRKG	NCV1117DT50RKG
MC78M18CDTRKG	NCV1117DT50RKG
MC79M05BDTG	NCV1117DT50RKG
MC79M05BDTRKG	NCV1117DT50RKG
MC79M05CDTRKG	NCV1117DT50RKG
MC79M08BDTRKG	NCV1117DT50RKG
MC79M08CDTRKG	NCV1117DT50RKG
MC79M12BDTRKG	NCV1117DT50RKG
MC79M12CDTRKG	NCV1117DT50RKG
MC79M15BDTRKG	NCV1117DT50RKG
MC79M15CDTRKG	NCV1117DT50RKG
MC7805BDTG	NCV1117DT50RKG
MC7805BDTRKG	NCV1117DT50RKG
MC7805CDTG	NCV1117DT50RKG
MC7805CDTRKG	NCV1117DT50RKG
MC7815CDTRKG	NCV1117DT50RKG
MC7815BDTRKG	NCV1117DT50RKG
MC7812CDTRKG	NCV1117DT50RKG
MC7812BDTRKG	NCV1117DT50RKG
MC7812BDTG	NCV1117DT50RKG
MC78M09BDTRKG	NCV1117DT50RKG
MC78M08CDTRKG	NCV1117DT50RKG
MC78M08BDTRKG	NCV1117DT50RKG
MC78M06CDTRKG	NCV1117DT50RKG
MC78M05CDTRKG	NCV1117DT50RKG
MC78M05CDTG	NCV1117DT50RKG

Appendix A: Changed Products

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DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
LM2931ADT-5.0RKG		NCV1117DT50RKG	#NONE	
LP2950ACDT-3.3RG		NCV1117DT50RKG	#NONE	
LP2950ACDT-5.0G		NCV1117DT50RKG	#NONE	
LP2950ACDT-5RKG		NCV1117DT50RKG	#NONE	
LP2950CDT-3.0RKG		NCV1117DT50RKG	#NONE	
LP2950CDT-3.3G		NCV1117DT50RKG	#NONE	
LP2950CDT-3.3RKG		NCV1117DT50RKG	#NONE	
LP2950CDT-5.0G		NCV1117DT50RKG	#NONE	
LP2950CDT-5.0RKG		NCV1117DT50RKG	#NONE	
MC33269DT-3.3G		NCV1117DT50RKG	#NONE	
MC33269DTRK-3.3G		NCV1117DT50RKG	#NONE	
MC33269DTRK-5.0G		NCV1117DT50RKG	#NONE	
MC33269DTRKG		NCV1117DT50RKG	#NONE	
MC33275DT-2.5RKG		NCV1117DT50RKG	#NONE	
MC33275DT-3.3RKG		NCV1117DT50RKG	#NONE	
MC33275DT-5.0RKG		NCV1117DT50RKG	#NONE	
NCP1117DT18RKG		NCV1117DT50RKG	#NONE	
NCP1117DT33G		NCV1117DT50RKG	#NONE	
NCP1117DT33RKG		NCV1117DT50RKG	#NONE	
NCP1117DT33T5G		NCV1117DT50RKG	#NONE	
NCP1117DT50G		NCV1117DT50RKG	#NONE	
NCP1117DT50RKG		NCV1117DT50RKG	#NONE	
NCP1117DTARKG		NCV1117DT50RKG	#NONE	
NCP1117IDT33T4G		NCV1117DT50RKG	#NONE	
NCP1117IDT50T4G		NCV1117DT50RKG	#NONE	
NCP1117IDTAT4G		NCV1117DT50RKG	#NONE	
NCP5501DT33RKG		NCV1117DT50RKG	#NONE	
NCP5501DT50RKG		NCV1117DT50RKG	#NONE	
LM2931DT-5.0G		NCV1117DT50RKG	#NONE	
LM317MABDTG		NCV1117DT50RKG	#NONE	
LM317MADTRKG		NCV1117DT50RKG	#NONE	
LM317MBDTG		NCV1117DT50RKG	#NONE	
LM317MABDTRKG		NCV1117DT50RKG	#NONE	
LM317MDTG		NCV1117DT50RKG	#NONE	
LM317MBDTRKG		NCV1117DT50RKG	#NONE	
MC78M05ABDTG		NCV1117DT50RKG	#NONE	
LM317MDTRKG		NCV1117DT50RKG	#NONE	
MC78M05ABDTRKG		NCV1117DT50RKG	#NONE	
MC78M05BDTG		NCV1117DT50RKG	#NONE	
MC78M05ACDTRKG		NCV1117DT50RKG	#NONE	
MC78M05BDTRKG		NCV1117DT50RKG	#NONE	
MC78M12ABDTRKG		NCV1117DT50RKG	#NONE	
MC78M09CDTRKG		NCV1117DT50RKG	#NONE	
MC78M12ACDTRKG		NCV1117DT50RKG	#NONE	
MC78M12BDTRKG		NCV1117DT50RKG	#NONE	
MC78M12BDTG		NCV1117DT50RKG	#NONE	
MC78M12CDTG		NCV1117DT50RKG	#NONE	
MC78M15ABDTRKG		NCV1117DT50RKG	#NONE	
MC78M12CDTRKG		NCV1117DT50RKG	#NONE	
MC78M15ACDTRKG		NCV1117DT50RKG	#NONE	
MC78M15BDTRKG		NCV1117DT50RKG	#NONE	
MC78M15CDTRKG		NCV1117DT50RKG	#NONE	
MC78M15CDTG		NCV1117DT50RKG	#NONE	
MC78M18CDTRKG		NCV1117DT50RKG	#NONE	
MC79M05BDTG		NCV1117DT50RKG	#NONE	
MC79M05CDTRKG		NCV1117DT50RKG	#NONE	
MC79M05BDTRKG		NCV1117DT50RKG	#NONE	
MC79M08CDTRKG		NCV1117DT50RKG	#NONE	
MC79M08BDTRKG		NCV1117DT50RKG	#NONE	
MC79M12CDTRKG		NCV1117DT50RKG	#NONE	

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DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC79M12BDTRKG		NCV1117DT50RKG	#NONE	
MC79M15BDTRKG		NCV1117DT50RKG	#NONE	
MC7805BDTG		NCV1117DT50RKG	#NONE	
MC79M15CDTRKG		NCV1117DT50RKG	#NONE	
MC7805BDTRKG		NCV1117DT50RKG	#NONE	
MC7805CDTG		NCV1117DT50RKG	#NONE	
MC7815CDTRKG		NCV1117DT50RKG	#NONE	
MC7805CDTRKG		NCV1117DT50RKG	#NONE	
MC7812CDTRKG		NCV1117DT50RKG	#NONE	
MC7815BDTRKG		NCV1117DT50RKG	#NONE	
MC7812BDTRKG		NCV1117DT50RKG	#NONE	
MC78M09BDTRKG		NCV1117DT50RKG	#NONE	
MC7812BDTG		NCV1117DT50RKG	#NONE	
MC78M08CDTRKG		NCV1117DT50RKG	#NONE	
MC78M08BDTRKG		NCV1117DT50RKG	#NONE	
MC78M05CDTRKG		NCV1117DT50RKG	#NONE	
MC78M06CDTRKG		NCV1117DT50RKG	#NONE	
MC78M05CDTG		NCV1117DT50RKG	#NONE	