



Final Product/Process Change Notification

Document #:FPCN25253X

Issue Date:19 Apr 2024

Title of Change:	DPAK case outline 369AA/D - Assembly and Test Qualification to Good-Ark, China for Capacity Expansion.		
Proposed First Ship date:	26 Jul 2024 or earlier if approved by customer		
Contact Information:	Contact your local onsemi Sales Office or MohdHezri.AbuBakar@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 AbdulRasyid.Ruslan@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:	Assembly Change, Test Change		
Change Sub-Category(s):	Manufacturing Site Transfer, Material Change		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
None		Good-Ark, China	
Description and Purpose:			
This Final Notification announces to customers the qualification of new assembly and test site of DPAK packaged (Case Outline 369AA/D) products to Suzhou Good-Ark Electronics, China for capacity expansion.			
	Before Change	After Change	
Assembly and Test Site	onsemi Seremban, Malaysia	onsemi Seremban, Malaysia	Good-Ark, China
Die Attach	Pb95Sn5	Pb95Sn5	Pb92.5Sn5Ag2.5

Reliability Data Summary:

QV DEVICE NAME: NTD6414ANT4G

RMS: S86770, S93758

PACKAGE: DPAK 3L/ 369AA

Test	Specification	Condition	Interval	Results
High Temperature Reverse Bias	JESD22-A108	Ta=175°C, 80% max rated V	1008 hrs	0/231
High Temperature Gate Bias	JESD22-A108	Ta=175°C, 100% max rated Vgss	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 175°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C, mounted form air to air	1000 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		0/90
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45
Physical Dimension	JESD22-B120			0/90

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
NTD6416ANT4G	NTD6414ANT4G
NTD6416ANLT4G	NTD6414ANT4G
NTD6415ANLT4G	NTD6414ANT4G
NTD6414ANT4G	NTD6414ANT4G

Appendix A: Changed Products**PCN#: FPCN25253X**
Issue Date: Apr 18, 2024

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NTD6416ANT4G		NTD6414ANT4G	#NONE	
NTD6415ANLT4G		NTD6414ANT4G	#NONE	
NTD6414ANT4G		NTD6414ANT4G	#NONE	
NTD6416ANLT4G		NTD6414ANT4G	#NONE	