

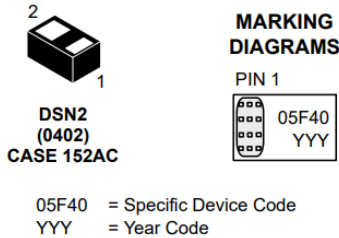
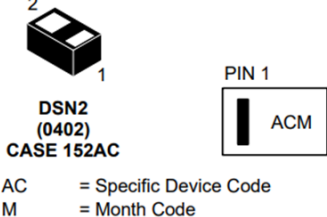


## Final Product/Process Change Notification

Document #:FPCN25300Z

Issue Date:26 Oct 2023

<b>Title of Change:</b>	Transfer of DSN2 Schottky plating site (from FCMS, China to HTKS, China) & Back End sites consolidation (from JCAP, MYD to JCAP)
<b>Proposed Changed Material First Ship Date:</b>	26 Apr 2024 or earlier if approved by customer
<b>Current Material Last Order Date:</b>	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>
<b>Current Material Last Delivery Date:</b>	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
<b>Product Category:</b>	Active components – Discrete components
<b>Contact information:</b>	Contact your local onsemi Sales Office or <a href="mailto:NurulAliaFatin.Redzoan@onsemi.com">NurulAliaFatin.Redzoan@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
<b>Sample Availability Date:</b>	21 Aug 2023
<b>PPAP Availability Date:</b>	04 Sep 2023
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:NurulAkmar.MohdFauzi@onsemi.com">NurulAkmar.MohdFauzi@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .
<b>Change Category</b>	
<b>Category</b>	<b>Type of Change</b>
Data Sheet	Correction of data sheet / errata
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor., Change of product marking
<b>Description and Purpose:</b>  Due to the acquisition of FCMS, China by HTKS, China FCMS will discontinue their support by Oct'2023. Therefore, <b>onsemi</b> is notifying its customer of its intent to transfer the plating site from external foundry facility, Flipchip Millenium (FCMS), China to external foundry facility, Huatian Technology (HTKS), China. Additionally, the back-end sites will be consolidated to JCET Jiangyn (AVM) (JCAP), China.	

	Before Change Description	After Change Description
Backgrind Site	onsemi ISMF, Malaysia	Huatian Technology, China
Marking Design	 <p>DSN2 (0402) CASE 152AC</p> <p>05F40 = Specific Device Code YYY = Year Code</p>	 <p>DSN2 (0402) CASE 152AC</p> <p>AC = Specific Device Code M = Month Code</p> <p>Notes : Device marking code will be different based on OPN.</p>
Plating Site	Flipchip Millenium (Shanghai)(FCMS), China	Huatian Technology, China
Probe, Tape & Reel Site	onsemi Seremban, Malaysia JCET Jiangyn BE(AVM)(JCAP), China	JCET Jiangyn BE(AVM)(JCAP), China

<b>Reason / Motivation for Change:</b>	Acquisition
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	<p>The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.</p> <p>No anticipated impacts.</p>

<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
None	Huatian Technology, China
	JCAP, China

<b>Marking of Parts/ Traceability of Change:</b>	Affected products will be identified by date code
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**Reliability Data Summary:**

**QV DEVICE NAME: NSVR05F40NXT5G**

**RMS: S89608**

**PACKAGE: DSN2 (0402)**

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 125°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/231
Temperature Cycling	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231

**NOTE: AEC-1pager and Change table are attached.**

*To view attachments:*

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file/s

**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](#).

Current Part Number	New Part Number	Qualification Vehicle
NSVR05F40NXT5G	N/A	NSVR05F40NXT5G