



## Final Product/Process Change Notification

Document #:FPCN24056X

Issue Date:25 May 2021

<b>Title of Change:</b>	SDIP Bridge Rectifier Manufacturing Site Change
<b>Proposed First Ship date:</b>	01 Sep 2021 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Phuong.Hoang@onsemi.com">Phuong.Hoang@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. 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.
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:songyong.sim@onsemi.com">songyong.sim@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	Assembly Plant marking code change from J to Q
<b>Change Category:</b>	Assembly Change, Wafer Fab Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer

**Sites Affected:**

ON Semiconductor Sites	External Foundry/Subcon Sites
None	Tianjin Everwell, China
	Yangxin Everwell, China

**Description and Purpose:**

As part of ON Semiconductor's effort to secure available capacity and meet customer's need of a reliable source for DFxxS and DFxxS1 Bridge Rectifiers in SDIP package, qualification of subcontractor located in Yangxin China, has been undertaken. This new sourcing is intended to meet consistent supply and service to our customers.

These products are currently assembled and tested in a subcontractor located in Taiwan. A comparison of the differences between the current and new sites' built parts are presented below:

Process	Before Change Description	After Change Description
Wafer Fab	Pynmax, Taiwan	Tianjin Everwell, China
Assy Site	Panjit, Taiwan	Yangxin Everwell, China
Die Size	60*60 mils	60*60 mils
Green Molding Compound	ELL2KS400	EK1800G
Qty per Reel	1500	1500

	From	To
Product marking change	Assembly Plant Code J	Assembly Plant Code Q
	With AC marking	With AC marking

**Reliability Data Summary:**QV DEVICE NAME: **DF10S (DF10S1, DF06S)**RMS: **SYSQR210428**PACKAGE: **SDIP**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5 min	6000 cyc	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias (42V)	96 hrs	0/231
AC	JESD22-A102	Ta = 121°C, P= 15 PSIG, RH = 100%,	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL1 @ 245°C		
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90
SD	JSTD002	Ta = 245C, 5 sec	-	0/30

**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
DF10S1	DF10S
DF10S	DF10S
DF08S1	DF10S
DF08S	DF10S
DF06S1	DF10S
DF06S	DF10S
DF04S1	DF10S
DF04S	DF10S
DF02S1	DF10S
DF02S	DF10S
DF01S1	DF10S
DF01S	DF10S
DF005S1	DF10S
DF005S	DF10S