



## Final Product/Process Change Notification

Document #: FPCN23486X

Issue Date: 28 Jul 2020

<b>Title of Change:</b>	Qualification of the component parts FRD (Fast Recovery Diode) change of STK531U394C-E.
<b>Proposed First Ship date:</b>	04 Nov 2020 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Mitsuru.Oyagi@onsemi.com">Mitsuru.Oyagi@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:Yasuhiro.Igarashi@onsemi.com">Yasuhiro.Igarashi@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>	DATE CODE
<b>Change Category:</b>	Change of FRD parts, Test Change
<b>Change Sub-Category(s):</b>	Datasheet/Product Doc change

**Sites Affected:****ON Semiconductor Sites**

ON Semiconductor Vietnam

**External Foundry/Subcon Sites**

None

**Description and Purpose:**

	Before Change Description	After Change Description
Change FRD (Fast Recovery Diode)	TYPE A	TYPE B

**Reliability Data Summary:**QV DEVICE NAME: STK531U394C-ERMS : J68842PACKAGE : SIP05F

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=+125°C, Vcc=600V	1008 hours	0/13
HTSL	JESD22-A103	Ta=+125°C	1008 hours	0/13
AC	JESD22-A102	Ta=+121°C, RH=100%, 15PSIG	96 hours	0/13
H3TRB	JESD22-A101	Ta=85°C, RH=85%, VCE=480V	1008 hours	0/13
TC	JESD22-A104, cond. G, soak mode 4	Ta=-40°C to 125°C	1000 cyc	0/13
ESD	AEC Q101-001 AEC Q101-005	HBM	-	0/3
		MM	-	0/3

All reliability test passed.

**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
STK531U394C-E	STK531U394C-E