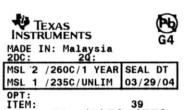
| Title: | Qualification of JCET as an additional Assembly Site for Select Package Devices | | | | | ect Package Devices | | | | |
|--|---|---------------------|------------------------|--|-----------------------------|--------------------------|---------------------|------------------------|------------------------|--|
| | Customer Contact: PCN Manager | | Dept: | Quality Servi | | ervices | | | | |
| Proposed 1 st Ship Date: | | Nov. 7, 2019 | | | Estimated Sam Availability: | | - | Provided upon Request | | |
| Change 1 | Change Type: | | | | | | | | | |
| Assembly Site | | | | Design | | | Wafer Bump Site | | | |
| Assei | SS | s | | Data Sheet | | | Wafer Bump Material | | | |
| Assembly Materials | | | | | Part number change | | | | Wafer Bump Process | |
| Mech | cificatio | ification | | Test Site | | | Wafer Fab Site | | | |
| Packi | g/Labe | J/Labeling | | Test | Process | rocess | | Wafer Fab Materials | | |
| | | | | | | | | Wafer Fab Process | | |
| PCN Details | | | | | | | | | | |
| Description of Change: | | | | | | | | | | |
| Texas Instruments is pleased to announce the qualification of JCET as an additional Assembly site for the device shown in the product affected section below. Construction differences are as follows: | | | | | | | | | | |
| | What Ca | | | | UTAC | | | JCET | | |
| | Mount Co | • | | PZ0039 | | | 120402001600 | | | |
| | Mold Com Lead Finis | | | | | CZ0140 NiPdAu | | 120903003709 NiPdAu | | |
| | Leau I IIIIs | 911 | | | | MIFUAU | | | NiruAu | |
| Reason f | or Change |): | | | | | | | | |
| Continuity | of Supply | | | | | | | | | |
| Anticipat | ted impact | on Fi | t, Form, | Fı | ınctio | n, Quality or | Reliab | ility | (positive / negative): | |
| None | | | | | | | | | | |
| Anticipat | ted impact | on M | aterial [|)ec | clarati | on | | | | |
| | Material Declaration r | | pro rel ob ma | Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the <u>TI Eco-Info website</u> . There is no impact to the material meeting current regulatory compliance requirements with this PCN change. | | | | | | |
| Changes to product identification resulting from this PCN: | | | | | | | | | | |
| | - | | | | | | | | | |
| Assembly Site | | Assembly Site (22L) | | | rigin | Assembly Countr (23L) | | / Cod | de Assembly City | |
| UT | - | | NSE | SE | | THA | | | Bangkok | |
| JCET JCE | | | | | CHN | | | Jiangyin | | |
| Sample product shipping label (not actual product label) | | | | | | | | | | |

PCN Number:

20190716000.1

PCN Date:

Aug. 7, 2019



)TO: 1750



(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483812 (P) (2P) REV: (V) 0033317 (2P) REV: (V) 0033317

(2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS

Product Affected

5A

LBL:

SN74LVC1G3157DRYR

Qualification Report

Approve Date 15-Nov-2011

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

| Туре | Test Name / Condition | Duration | Qual Device: LVC1G07DRYR | QBS Package Reference: <u>SN1111039</u> |
|-------|---------------------------------|------------------------|-----------------------------|--|
| AC | Autoclave 121C | 96 Hours | 3/231/0 | - |
| HAST | Biased HAST, 130C/ 85%RH | 96 Hours | - | 3/230/0 |
| HTOL | Life Test, 150C | 300 Hours | - | 3/231/0 |
| HTSL | High Temp Storage Bake 170C | 420 Hours | 3/231/0 | 3/231/0 |
| PD | Physical Dimensions | | 3/15/0 | - |
| TC | Temperature Cycle - 65C/150C | 500 Cycles | 3/231/0 | 3/231/0 |
| TS | Thermal Shock -65/150C | 500 Cycles | 3/230/0 | - |
| UHAST | Unbiased HAST | 130C/85%RH/96 hours | - | 3/231/0 |

- QBS: Qual By Similarity
- Qual Device LVC1G07DRYR is qualified at LEVEL1-260C
- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7 eV: 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/ Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

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|--------------|--------------------------------|
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