



Title of Change:	Qualification of the Nantong Huada, China facility as an alternative manufacturing site for the Assembly and Test of T0220 3 Lead products.																																																	
Proposed first ship date:	2 February 2017 or earlier upon customer approval																																																	
Contact information:	Contact your local ON Semiconductor Sales Office or <alan.garlington@onsemi.com>																																																	
Samples:	Contact your local ON Semiconductor Sales Office																																																	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <tomas.vajter@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. 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 <PCN.Support@onsemi.com>.																																																	
Change Part Identification:	Shipments made after workweek 3 – 2017 may be made from either qualified assembly/test . The Location can be determined from the device marking Site code.																																																	
Change category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input checked="" type="checkbox"/> Test Change <input type="checkbox"/> Other _____																																																	
Change Sub-Category(s):	<input checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____																																																	
Sites Affected:	<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input type="checkbox"/> ON Semiconductor site(s) : _____ <input checked="" type="checkbox"/> External Foundry/Subcon site(s) _____ <u>Nantong Huada</u> _____																																																	
Description and Purpose:	<p>Nantong Huada has been qualified to Assemble and Test devices assembled in the IC T0220 3 Lead Package. Huada is ISO9001 and ISO14001 certified.</p> <p>This is a dual site qualification. After expiration of this PCN, products may be assembled at either the ON Semiconductor Seremban, Malaysia location or the new Nantong Huada, China location.</p>																																																	
Reliability Data Summary:	<p>QV DEVICE NAME: NCV317BTG, NCP7805TG PACKAGE: T0220 – 3 Lead Cu Wire bond Single Gage</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Specification</th> <th>Condition</th> <th>Interval</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td rowspan="2">HTOL</td> <td rowspan="2">JESD22-A108</td> <td>Ta=145°C</td> <td>1008 hrs</td> <td>0/80</td> </tr> <tr> <td>Ta = 125°C</td> <td>1008 hrs</td> <td>0/240</td> </tr> <tr> <td>HTSL</td> <td>JESD22-A103</td> <td>Ta= 150°C</td> <td>1008 hrs</td> <td>0/335</td> </tr> <tr> <td>TC</td> <td>JESD22-A104</td> <td>Ta= -65°C to +150°C</td> <td>1000 cyc</td> <td>0/362</td> </tr> <tr> <td>HAST</td> <td>JESD22-A110</td> <td>130°C, 85% RH, 18.8psig, bias</td> <td>192 hrs</td> <td>0/580</td> </tr> <tr> <td>uHAST</td> <td>JESD22-A118</td> <td>130°C, 85% RH, 18.8psig, unbiased</td> <td>192 hrs</td> <td>0/320</td> </tr> <tr> <td rowspan="2">ESD</td> <td rowspan="2">JEDEC Electrostatic Discharge</td> <td>HBM</td> <td>2 KV</td> <td>0/6</td> </tr> <tr> <td>MM</td> <td>200v</td> <td>0/6</td> </tr> <tr> <td>LU</td> <td>AEC 300</td> <td>Latch Up</td> <td></td> <td>0/ 6</td> </tr> </tbody> </table>				Test	Specification	Condition	Interval	Results	HTOL	JESD22-A108	Ta=145°C	1008 hrs	0/80	Ta = 125°C	1008 hrs	0/240	HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/335	TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/362	HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/580	uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	192 hrs	0/320	ESD	JEDEC Electrostatic Discharge	HBM	2 KV	0/6	MM	200v	0/6	LU	AEC 300	Latch Up		0/ 6
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Electrical Characteristic Summary:

There is no change to any Electrical Parameter. All Data Sheet specifications remain the same.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
LM2931AT-5.0G	
LM2931T-5.0G	
LM317BTG	
LM317MABTG	
LM317MBTG	
LM317MTG	
LM317TG	
LM337BTG	
LM337TG	
MC33269T-012G	
MC33269T-3.3G	
MC33269T-3.5G	
MC33269T-5.0G	
MC33269TG	
MC7805ABTG	
MC7805ACTG	NCV317BTG
MC7805BTG	NCP7805TG
MC7805CTG	
MC7806ACTG	
MC7806BTG	
MC7806CTG	
MC7808ABTG	
MC7808ACTG	
MC7808BTG	
MC7808CTG	
MC7809ABTG	
MC7809ACTG	
MC7809BTG	
MC7809CTG	
MC7812ABTG	
MC7812ACTG	
MC7812BTG	



MC7812CTG	
MC7815ABTG	
MC7815ACTG	
MC7815BTG	
MC7815CTG	
MC7818ACTG	
MC7818BTG	
MC7818CTG	
MC7824ACTG	
MC7824BTG	
MC7824CTG	
MC78M05ABTG	
MC78M05ACTG	
MC78M05BTG	
MC78M05CTG	
MC78M06BTG	
MC78M06CTG	
MC78M08ABTG	
MC78M08ACTG	
MC78M08BTG	
MC78M08CTG	
MC78M09CTG	
MC78M12ABTG	
MC78M12ACTG	
MC78M12BTG	
MC78M12CTG	
MC78M15ABTG	
MC78M15ACTG	
MC78M15BTG	
MC78M15CTG	
MC78M18BTG	
MC78M18CTG	
MC78M20CTG	
MC78M24BTG	
MC78M24CTG	
MC7905.2CTG	
MC7905ACTG	

NCV317BTG
NCP7805TG



MC7905BTG	
MC7905CTG	
MC7906CTG	
MC7908ACTG	
MC7908CTG	
MC7912ACTG	
MC7912BTG	
MC7912CTG	
MC7915ACTG	
MC7915BTG	
MC7915CTG	
MC7918CTG	
MC7924BTG	
MC7924CTG	
MC79M05BTG	
MC79M05CTG	
MC79M08BTG	
MC79M08CTG	
MC79M12BTG	
MC79M12CTG	
MC79M15BTG	
MC79M15CTG	
NCP7805ETG	
NCP7805TG	
NCP7808TG	
NCP7812ETG	
NCP7812TG	
NCP7815TG	
SC7805CTG	
SC7812CTG	
SCD317BTG	
SCD317MABTG	
SCD317MTG	
SCD33269T-5.0G	
SCD33269TG	
SCD337BTG	
SCD337TG	

NCV317BTG
NCP7805TG



SCD7805ACTG	
SCD7805BTG	
SCD7805CTG	
SCD7806CTG	
SCD7809ACTG	
SCD7809BTG	
SCD7809CTG	
SCD7812BTG	
SCD7812CTG	
SCD7815ACTG	
SCD7815BTG	
SCD7815CTG	
SCD7818BTG	
SCD7824BTG	
SCD7824CTG	
SCD78M05CTG	
SCD78M09CTG	
SCD78M12CTG	
SCD78M15BTG	
SCD7905ACTG	
SCD7905CTG	
SCD7912ACTG	
SCD7912BTG	
SCD7912CTG	
SCD7915CTG	
SCD79M12CTG	

NCV317BTG
NCP7805TG

List of Affected Customer Specific Parts:

NOTE: Please be informed that parts impacted by this PDN/PCN are Special/Customer specific parts, thus MPN & CPN info will be available to affected customers only by clicking the "[Custom PCN for Selected Company Button](#)" in the Document Analysis page of PCMS/PCN Alert.