

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20349A

Generic Copy

Issue Date: 26-Nov-2014

<u>TITLE</u>: Qualification of Niigata Fab (Japan) as the additional wafer source for Small Signal General Purpose Transistors and Bias Resistor Transistors.

PROPOSED FIRST SHIP DATE: 03-Mar-2015

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Fab Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION: Contact your local ON Semiconductor Sales Office or Farrah Omar <<u>farrah.omar@onsemi.com</u>>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Laura Rivers laura.rivers@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

This is the Final Notification by ON Semiconductor notifying customers of its plan to add Niigata Fab (Japan) as the qualified wafer source for Small Signal General Purpose Transistors and Bias Resistor Transistors.

The Niigata Fab facility is an ON Semiconductor owned wafer fab that has been producing products for ON Semiconductor. Several existing technologies within ON Semiconductor's product families are currently sourced from Niigata Fab. ON Semiconductor Niigata Wafer Fab is an internal factory that is TS16949, ISO-9001 and ISO-14000 certified.

Qualification tests are designed to show that the reliability of the transferred devices will continue to meet or exceed ON Semiconductor standards.



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RELIABILITY DATA SUMMARY:

Small Signal General Purpose Transistor

Package: SOT23 BCX19LT1G (NPN)

| Test: | Conditions: | Interval: | Results |
|--------------|-----------------------------|-----------|---------|
| HTRB | Ta=150C,80% Rated Voltage | 1008 hrs | 0/240 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/240 |
| HAST+PC | Ta=130C RH=85% | 96 hrs | 0/240 |
| | bias=80% rated V or100V Max | | |
| IOL+PC | Ta=25C, Delta TJ = 100 C, | 15000 cyc | 0/240 |
| | Ton/off = 2 min. | • | |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/240 |
| HTSL | Ta = 150C | 1008 hrs | 0/240 |
| RSH | Ta=260C, 10 sec dwell | | 0/30 |
| DPA | per AEC Q101-004 post TC | | 0/2 |
| DPA | per AEC Q101-004 post HAST | | 0/2 |

Package: SOT23 MMBT589LT1G (PNP)

| Test: | Conditions: | Interval: | Results |
|----------|-----------------------------|-----------|---------|
| HTRB | Ta=150C,80% Rated Voltage | 1008 hrs | 0/240 |
| UHAST+PC | Ta=130C RH=85% | 96 hrs | 0/240 |
| HAST+PC | Ta=130C RH=85% | 96 hrs | 0/240 |
| | bias=80% rated V or100V Max | | |
| IOL+PC | Ta=25C, Delta TJ = 100 C, | 15000 cyc | 0/240 |
| | Ton/off = 2 min. | | |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/240 |
| HTSL | Ta = 150C | 1008 hrs | 0/240 |
| RSH | Ta=260C, 10 sec dwell | | 0/30 |
| DPA | per AEC Q101-004 post TC | | 0/2 |
| DPA | per AEC Q101-004 post HAST | | 0/2 |



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Bias Resistor Transistor

Package: SC70 DTC115EM3T5G (NPN)

| Test: | Conditions: | Interval: | Results |
|--------------|-----------------------------|-----------|---------|
| HTRB | Ta=150C,80% Rated Voltage | 1008 hrs | 0/80 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/80 |
| HAST+PC | Ta=130C RH=85% | 96 hrs | 0/80 |
| | bias=80% rated V or100V Max | | |
| IOL+PC | Ta=25C, Delta TJ = 100 C, | 15000 cyc | 0/80 |
| | Ton/off = $2 \min$. | | |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/80 |
| HTSL | Ta = 150C | 1008 hrs | 0/80 |
| RSH | Ta=260C, 10 sec dwell | | 0/30 |
| DPA | per AEC Q101-004 post TC | | 0/2 |
| DPA | per AEC Q101-004 post HAST | | 0/2 |

Package: SC75 DTA114EYT1G (PNP)

| Test: | Conditions: | Interval: | Result |
|--------------|-----------------------------|-----------|--------|
| HTRB | Ta=150C,80% Rated Voltage | 1008 hrs | 0/80 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/80 |
| HAST+PC | Ta=130C RH=85% | 96 hrs | 0/80 |
| | bias=80% rated V or100V Max | | |
| IOL+PC | Ta=25C, Delta TJ = 100 C, | 15000 cyc | 0/80 |
| | Ton/off = $2 \min$. | | |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/80 |
| HTSL | Ta = 150C | 1008 hrs | 0/80 |
| RSH | Ta=260C, 10 sec dwell | | 0/30 |
| DPA | per AEC Q101-004 post TC | | 0/2 |
| DPA | per AEC Q101-004 post HAST | | 0/2 |

Package: SC70 MUN5230T1G (NPN)

| Test: | Conditions: | Interval: | Results |
|--------------|-----------------------------|-----------|---------|
| HTRB | Ta=150C,80% Rated Voltage | 1008 hrs | 0/80 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/80 |
| HAST+PC | Ta=130C RH=85% | 96 hrs | 0/80 |
| | bias=80% rated V or100V Max | | |
| IOL+PC | Ta=25C, Delta TJ = 100 C, | 15000 cyc | 0/80 |
| | Ton/off = $2 \min$. | | |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/80 |
| HTSL | Ta = 150C | 1008 hrs | 0/80 |
| RSH | Ta=260C, 10 sec dwell | | 0/30 |
| DPA | per AEC Q101-004 post TC | | 0/2 |
| DPA | per AEC Q101-004 post HAST | | 0/2 |



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Package: SOT23 SMMUN2214LT1G (NPN)

| Test: | Conditions: | Interval: | Results |
|--------------|-----------------------------|-----------|---------|
| HTRB | Ta=150C,80% Rated Voltage | 1008 hrs | 0/240 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/240 |
| HAST+PC | Ta=130C RH=85% | 96 hrs | 0/240 |
| | bias=80% rated V or100V Max | | |
| IOL+PC | Ta=25C, Delta TJ = 100 C, | 15000 cyc | 0/240 |
| | Ton/off = 2 min. | - | |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/240 |
| HTSL | Ta = 150C | 1008 hrs | 0/240 |
| DPA | per AEC Q101-004 post TC | | 0/2 |
| DPA | per AEC Q101-004 post HAST | | 0/2 |

ELECTRICAL CHARACTERISTIC SUMMARY:

There are no changes in electrical characteristics and product performance meets data sheet specifications. Characterization data is available upon request.

CHANGED PART IDENTIFICATION:

Affected products from ON Semiconductor with date code 1510 representing WW10, 2015 and greater may be sourced from either the Niigata Fab (Japan) or the ISMF Fab (Malaysia).



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List of affected General Parts:

Small Signal General Purpose Transistors

| BC807-16LT1G | BC847CLT1G | BCW65ALT1G |
|----------------|---------------|----------------|
| BC807-16LT3G | BC847CLT3G | BCW65CLT1G |
| BC807-25LT1G | BC847CWT1G | BCW66GLT1G |
| BC807-25LT3G | BC847CWT3G | BCW66GLT3G |
| BC807-25WT1G | BC848BLT1G | BCW68GLT1G |
| BC807-40LT1G | BC848BLT3G | BCW68GLT3G |
| BC807-40LT3G | BC848BWT1G | BCW70LT1G |
| BC807-40WT1G | BC848CDW1T1G | BCW72LT1G |
| BC808-25LT1G | BC848CLT1G | BCX17LT1G |
| BC817-16LT1G | BC848CPDW1T1G | BCX19LT1G |
| BC817-16LT3G | BC848CWT1G | BSS64LT1G |
| BC817-25LT1G | BC849BLT1G | MMBT5087LT1G |
| BC817-25LT3G | BC849CLT1G | MMBT5087LT3G |
| BC817-40LT1G | BC850BLT1G | MMBT5401LT1G |
| BC817-40LT3G | BC850CLT1G | MMBT5401LT3G |
| BC818-40LT1G | BC856ALT1G | MMBT5401WT1G |
| BC846BDW1T1G | BC856BDW1T1G | MMBT5550LT1G |
| BC846BLT1G | BC856BDW1T3G | MMBT5550LT3G |
| BC846BLT3G | BC856BLT1G | MMBT5551LT1G |
| BC846BM3T5G | BC856BLT3G | MMBT5551LT3G |
| BC846BM3T5H | BC856BM3T5G | MMBT5551M3T5G |
| BC846BPDW1T1G | BC856BWT1G | MMBTA05LT1G |
| BC846BWT1G | BC857ALT1G | MMBTA05LT3G |
| BC847BDW1T1G | BC857BDW1T1G | MMBTA06LT1G |
| BC847BDW1T3G | BC857BLT1G | MMBTA06LT3G |
| BC847BLT1G | BC857BLT3G | MMBTA06WT1G |
| BC847BLT3G | BC857BTT1G | MMBTA55LT1G |
| BC847BM3T5G | BC857BWT1G | MMBTA56LT1G |
| BC847BPDW1T1G | BC858ALT1G | MMBTA56LT3G |
| BC847BPDW1T2G | BC858AWT1G | MMBTA56WT1G |
| BC847BPDW1T3G | BC858BLT1G | MMBTA70LT1G |
| BC847BPDXV6T1G | BC858BLT3G | MSD602-RT1G |
| BC847BTT1G | BC858BWT1G | NSM4002MR6T1G |
| BC847BWT1G | BCW30LT1G | NSM80100MT1G |
| BC847CDW1T1G | BCW32LT1G | NSM80101MT1G |
| BC847CDXV6T1G | BCW33LT1G | NST45010MW6T1G |
| BC847CDXV6T1H | BCW33LT3G | NSTB60BDW1T1G |



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Bias Resistor Transistors

| DTA114EET1G EMG2DXV5T5G MUN5111DW1T1G MUN5313DW1T1G DTA114EM3T5G MMUN2111LT1G MUN5111T1G MUN5314DW1T1G DTA114YET1G MMUN2111LT3G MUN5112DW1T1G MUN5330DW1T1G DTA114YET1G MMUN2112LT1G MUN5112DW1T1G MUN5330DW1T1G DTA124EET1G MMUN2113LT3G MUN5113DW1T1G MUN5332DW1T1G DTA124EET1G MMUN2114LT3G MUN5113T3G MUN5333DW1T1G DTA144EET1G MMUN2114LT3G MUN5114DW1T1G MUN5333DW1T1G DTA144EET1G MMUN2114LT3G MUN5114DW1T1G MUN5335DW1T1G DTC114EET1G MMUN2211LT3G MUNS211DW1T1G MUN5335DW1T2G DTC114EET1G MMUN2212LT1G MUN5212DW1T1G MUN5336DW1T1G DTC114FET1G MMUN2213LT1G MUN5212DW1T1G NSB4904DW1T1G DTC114FET1G MMUN2214LT1G MUN5213DW1T1G NSB414EDXv6T1G DTC114FET1G MMUN2213LT1G MUN5213DW1T1G NSB414EDXv6T1G DTC114FET1G MMUN2230LT1G MUN5213DW1T1G NSB414EDXv6T1G DTC123JET1G MMUN2230LT1G MUN5213 | | | | |
|---|--------------|--------------|---------------|------------------|
| DTA114YETIG MMUN2111LT3G MUN5112DW1T1G MUN5316DW1T1G DTA114YM3T5G MMUN2112LT1G MUN5112T1G MUN5330DW1T1G DTA124EET1G MMUN2113LT1G MUN5113DW1T1G MUN5332DW1T1G DTA124EM3T5G MMUN2113LT3G MUN5113DW1T1G MUN5333DW1T1G DTA144EET1G MMUN2114LT3G MUN5113T3G MUN5333DW1T1G DTA144EET1G MMUN2114LT3G MUN5114DW1T1G MUN5335DW1T1G DTA144EET1G MMUN2211LT3G MUN5114T1G MUN5335DW1T2G DTC114EET1G MMUN2211LT3G MUN5211DW1T1G MUN5336DW1T1G DTC114EM3T5G MMUN2212LT1G MUN5211DW1T1G NSB1706DMV5T1G DTC114FET1G MMUN2213LT1G MUN5212DW1T1G NSB404DW1T1G DTC114YFT1G MMUN2213LT1G MUN5212DW1T1G NSB404DW1T1G DTC114YM3T5G MMUN2214LT1G MUN5212DW1T1G NSB414EDXV6T1G DTC115EET1G MMUN2230LT1G MUN5213DW1T3G NSBA114EDXV6T1G DTC1123JET1G MUN2233LT1G MUN5213DW1T3G NSBA144EDXV6T1G DTC124EET1G MMUN2233LT1G MUN52 | DTA114EET1G | EMG2DXV5T5G | MUN5111DW1T1G | MUN5313DW1T1G |
| DTA114YM3T5GMMUN2112LT1GMUN5112T1GMUN5330DW1T1GDTA124EET1GMMUN2113LT1GMUN5113DW1T1GMUN5332DW1T1GDTA124EM3T5GMMUN2113LT3GMUN5113T1GMUN5333DW1T1GDTA144ET1GMMUN2114LT1GMUN5113T3GMUN5333DW1T1GDTA144EM3T5GMMUN2114LT3GMUN5114DW1T1GMUN5335DW1T1GDTC114EET1GMMUN2211LT1GMUN5114T1GMUN5335DW1T2GDTC114EM3T5GMMUN2211LT3GMUN5211DW1T1GMUN5336DW1T1GDTC114YET1GMMUN2212LT1GMUN5211DW1T1GNSB1706DMV5T1GDTC114YET1GMMUN2213LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2214LT1GMUN5212DW1T1GNSB4114EDXV6T1GDTC115ET1GMMUN2216LT1GMUN5213DW1T1GNSB4114EDXV6T1GDTC1123JET1GMMUN2230LT1GMUN5213DW1T3GNSBA124EDXV6T1GDTC124EET1GMMUN2233LT1GMUN5214DW1T1GNSBC113EDXV6T1GDTC124KET1GMUN2233LT1GMUN5216DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2236LT1GMUN5230DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2111T1GMUN5230DW1T1GNSBC114EDXV6T1GDTC143ET1GMUN2112T1GMUN5230DW1T1GNSBC124ZDXV6T1GDTC143ET1GMUN2113T1GMUN5232DW1T1GNSBC124EDXV6T1GDTC143ZET1GMUN2211JT1GMUN5232DW1T1GNSBC124XDXV6T1GDTC143ZET1GMUN2211T1GMUN5233DW1T1GNSBC143EDXV6T1GDTC144EET1GMUN2211T1GMUN5233DW1T1GNSBC143EDXV6T1GDTC144EET1GMUN2211T1GMUN5233DW1T1G <td>DTA114EM3T5G</td> <td>MMUN2111LT1G</td> <td>MUN5111T1G</td> <td>MUN5314DW1T1G</td> | DTA114EM3T5G | MMUN2111LT1G | MUN5111T1G | MUN5314DW1T1G |
| DTA124EET1GMMUN2113LT1GMUN5113DW1T1GMUN5332DW1T1GDTA124EM3T5GMMUN2113LT3GMUN5113T1GMUN5333DW1T1GDTA144EET1GMMUN2114LT1GMUN5113T3GMUN5334DW1T1GDTA144EM3T5GMMUN2114LT3GMUN5114DW1T1GMUN5335DW1T1GDTC114EET1GMMUN2211LT1GMUN5114T1GMUN5335DW1T2GDTC114EET1GMMUN2211LT3GMUN5211DW1T1GMUN5336DW1T1GDTC114EET1GMMUN2211LT3GMUN5211DW1T1GMUN5336DW1T1GDTC114YET1GMMUN2212LT1GMUN5212DW1T1GNSB4904DW1T1GDTC114YM3T5GMMUN2213LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2214LT1GMUN5213DW1T1GNSB4114EDXV6T1GDTC1123JET1GMMUN2230LT1GMUN5213DW1T3GNSBA114EDXV6T1GDTC123JJT1GMMUN2230LT1GMUN5213DW1T3GNSBA144EDXV6T1GDTC124EET1GMMUN2233LT1GMUN5214DW1T1GNSBC113EDXV6T1GDTC124EET1GMMUN2234LT1GMUN5216DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2234LT1GMUN5230DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2211T1GMUN5230DW1T1GNSBC124XDXV6T1GDTC143EET1GMUN2113T1GMUN5230DW1T1GNSBC124XDXV6T1GDTC143EET1GMUN2211T1GMUN5232DW1T1GNSBC124XDXV6T1GDTC143EET1GMUN2211T1GMUN5233DW1T1GNSBC124XDXV6T1GDTC143ZET1GMUN2211T1GMUN5233DW1T1GNSBC143EDXV6T1GDTC143ZET1GMUN2211T3GMUN5233DW1T1GNSBC143EDXV6T1GDTC144EET1GMUN2211T3GMUN5233DW1T | DTA114YET1G | MMUN2111LT3G | MUN5112DW1T1G | MUN5316DW1T1G |
| DTA124EM3T5GMMUN2113LT3GMUN5113T1GMUN5333DW1T1GDTA144EET1GMMUN2114LT1GMUN5113T3GMUN5334DW1T1GDTA144EM3T5GMMUN2114LT3GMUN5114DW1T1GMUN5335DW1T1GDTC114ET1GMMUN2211LT1GMUN5114T1GMUN5335DW1T2GDTC114ET1GMMUN2211LT3GMUN5211DW1T1GMUN5336DW1T1GDTC114YET1GMMUN2212LT1GMUN5211DW1T1GNSB1706DMW5T1GDTC114YET1GMMUN2213LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2213LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2214LT1GMUN5213DW1T1GNSB4114EDXV6T1GDTC1125ET1GMMUN2216LT1GMUN5213DW1T1GNSBA114EDXV6T1GDTC123JET1GMMUN2230LT1GMUN5213DW1T3GNSBA124EDXV6T1GDTC124EET1GMMUN2233LT1GMUN5214DW1T1GNSBC113EDXV6T1GDTC124EET1GMMUN2233LT1GMUN5214DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2234LT1GMUN5216DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2236LT1GMUN5230DW1T1GNSBC114EDXV6T1GDTC143EET1GMUN2111T1GMUN5230DW1T1GNSBC123JDXV6T1GDTC143EET1GMUN2114T1GMUN5232DW1T1GNSBC124XDXV6T1GDTC143ZET1GMUN2211JTGMUN5232T1GNSBC124XDXV6T1GDTC143ZET1GMUN2211T1GMUN5233DW1T1GNSBC143EDXV6T1GDTC143ZET1GMUN2211T1GMUN5233T1GNSBC1432DXV6T1GDTC144EET1GMUN2211T3GMUN5233T1GNSBC1432DXV6T1GDTC144EET1GMUN2211T3GMUN5233T1GNSB | DTA114YM3T5G | MMUN2112LT1G | MUN5112T1G | MUN5330DW1T1G |
| DTA144EET1GMMUN2114LT1GMUN5113T3GMUN5334DW1T1GDTA144EM3T5GMMUN2114LT3GMUN5114DW1T1GMUN5335DW1T1GDTC114EET1GMMUN2211LT1GMUN5114T1GMUN5335DW1T2GDTC114ET1GMMUN2211LT3GMUN5211DW1T1GMUN5336DW1T1GDTC114YET1GMMUN2212LT1GMUN5211DW1T1GNSB1706DMW5T1GDTC114YET1GMMUN2213LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2214LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2214LT1GMUN5213DW1T1GNSBA114EDXV6T1GDTC115EM3T5GMMUN2230LT1GMUN5213DW1T3GNSBA144EDXV6T1GDTC123JET1GMMUN2230LT1GMUN5213T1GNSBA144EDXV6T1GDTC124EET1GMMUN2233LT1GMUN5214T1GNSBC113EDXV6T1GDTC124XET1GMMUN2234LT1GMUN5216DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2236LT1GMUN5216DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2236LT1GMUN5230DW1T1GNSBC114EDXV6T1GDTC143EET1GMUN2112T1GMUN5230DW1T1GNSBC123JDXV6T1GDTC143ET1GMUN2111T1GMUN5230T1GNSBC124XDXV6T1GDTC143TET1GMUN2211JT1GMUN5232T1GNSBC124XDXV6T1GDTC143ZET1GMUN22111T3GMUN5233T1GNSBC143EDXV6T1GDTC143ZET1GMUN2211T3GMUN5233T1GNSBC143ZDXV6T1GDTC144ZET1GMUN2211T3GMUN5233T1GNSBC143ZDXV6T1GDTC144EET1GMUN2212T1GMUN5234DW1T1GNSBC143ZDXV6T1G | DTA124EET1G | MMUN2113LT1G | MUN5113DW1T1G | MUN5332DW1T1G |
| DTA144EM3T5GMMUN2114LT3GMUN5114DW1T1GMUN5335DW1T1GDTC114EET1GMMUN2211LT1GMUN5114T1GMUN5335DW1T2GDTC114EM3T5GMMUN2211LT3GMUN5211DW1T1GMUN5336DW1T1GDTC114YET1GMMUN2212LT1GMUN5211DW1T1GNSB1706DMW5T1GDTC114YBT1GMMUN2213LT1GMUN5212DW1T1GNSB4904DW1T1GDTC115EET1GMMUN2214LT1GMUN5212DW1T1GNSB4104DW1T1GDTC115EET1GMMUN2214LT1GMUN5213DW1T1GNSBA114EDXV6T1GDTC115ET1GMMUN2216LT1GMUN5213DW1T1GNSBA114EDXV6T1GDTC123JET1GMMUN2230LT1GMUN5213DW1T3GNSBA124EDXV6T1GDTC123JFT1GMMUN2232LT1GMUN5213T1GNSBA144EDXV6T1GDTC124EET1GMMUN2233LT1GMUN5214DW1T1GNSBC113EDXV6T1GDTC124EET1GMMUN2234LT1GMUN5214DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2236LT1GMUN5216DW1T1GNSBC114EDXV6T1GDTC124XET1GMUN2236LT1GMUN5230DW1T1GNSBC114EDXV6T1GDTC143EET1GMUN2111T1GMUN5230DW1T1GNSBC123JDXV6T1GDTC143ET1GMUN2111T1GMUN5232DW1T1GNSBC124XDXV6T1GDTC143TET1GMUN22111T1GMUN5232T1GNSBC124XDXV6T1GDTC143ZET1GMUN2211T1GMUN5233T1GNSBC143EDXV6T1GDTC143ZET1GMUN2211T3GMUN5233T1GNSBC143EDXV6T1GDTC144ZET1GMUN2211T3GMUN5233T1GNSBC143ZDXV6T1GDTC144EET1GMUN2211T3GMUN5233T1GNSBC143ZDXV6T1G | DTA124EM3T5G | MMUN2113LT3G | MUN5113T1G | MUN5333DW1T1G |
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| | DTC144EM3T5G | MUN2213T1G | MUN5234T1G | NSBC143ZDXV6T5G |
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| EMC4DXV5T1G MUN2216T1G MUN5236DW1T1G NSTB1005DXV5T1G | EMC4DXV5T1G | MUN2216T1G | MUN5236DW1T1G | NSTB1005DXV5T1G |
| EMC5DXV5T1G MUN2230T1G MUN5236T1G UMC3NT1G | EMC5DXV5T1G | MUN2230T1G | MUN5236T1G | UMC3NT1G |
| EMD4DXV6T1G MUN2232T1G MUN5311DW1T1G UMC5NT1G | EMD4DXV6T1G | MUN2232T1G | MUN5311DW1T1G | UMC5NT1G |
| EMD5DXV6T5G MUN2233T1G MUN5311DW1T2G UMC5NT2G | EMD5DXV6T5G | MUN2233T1G | MUN5311DW1T2G | UMC5NT2G |
| EMF18XV6T5G MUN2234T1G MUN5312DW1T1G | EMF18XV6T5G | MUN2234T1G | MUN5312DW1T1G | |
| EMF5XV6T5G MUN2236T1G MUN5312DW1T2G | EMF5XV6T5G | MUN2236T1G | MUN5312DW1T2G | |