ON Semiconductor

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION

29-Oct-2009

SUBJECT: ON Semiconductor Final Product/Process Change Notification #16352

TITLE: Copper Wire replacing Gold Wire in the SOT23, SC59, SC70, SC74, SC75 and SC88 Packages

PROPOSED FIRST SHIP DATE: 01-Feb-2010

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly Areas – Wire Bond

AFFECTED PRODUCT DIVISION(S): Small Signal Transistor Business Unit, and ESD and Protection Business Unit

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or Eben Lim <eben.lim@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office or Eben Lim <eben.lim@onsemi.com>

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Chui Har Teo <chuihar.teo@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 your local ON Semiconductor Sales Office.

DESCRIPTION AND PURPOSE:

ON Semiconductor is notifying customers of its use of Copper Wire (in place of Gold Wire) for their SOT23, SC59, SSC70, SC74, SC75, and SC88 packages. Discrete products built with general purpose transistor, biased-resistor transistor, high voltage transistor, zener diode, schottky diode, and switching diode platforms are represented by this Process Change Notice.

Reliability Qualification and full electrical characterization over temperature has been performed.

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QUALIFICATION PLAN:

Reliability testing was performed on qualification vehicles chosen based on die size, voltage rating, and run rates.

RELIABILITY RESULTS:

SOT-23
MMBT2369LT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs H3TRB			0/6
RSH	Ta=260C, 10 sec dwell		0/89

BAT54ALT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs H3TRB			0/6
RSH	Ta=260C, 10 sec dwell		0/90

MMBZ5270BLT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/160
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/640
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/160
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/160
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/160
HTSL	Ta=150C	1008 hrs	0/160
DPA Per AECQ101, after 1000 cyc TC			0/4
DPA Per AECQ101, after 1008 hrs H3TRB			0/4
RSH	Ta=260C, 10 sec dwell		0/60

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MMBZ5263BLT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/80
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/320
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/80
HTSL	Ta=150C	1008 hrs	0/80
DPA Per AECQ101, after 1000 cyc TC			0/2
DPA Per AECQ101, after 1008 hrs H3TRB			0/2
RSH	Ta=260C, 10 sec dwell		0/30

MMBZ33VALT1G

Test:	Conditions:	Interval:	Results
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs H3TRB			0/6
RSH	Ta=260C, 10 sec dwell		0/90

SOD-123

MMSD103T1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs HAST			0/6
RSH	Ta=260C, 10 sec dwell		0/89

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BAT54T1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs H3TRB			0/6
RSH	Ta=260C, 10 sec dwell		0/90

MMSZ5254ET1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/80
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/320
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/80
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/80
HTSL	Ta=150C	1008 hrs	0/80
DPA Per AECQ101, after 1000 cyc TC			0/2
DPA Per AECQ101, after 1008 hrs HAST			0/2
RSH	Ta=260C, 10 sec dwell		0/30

MMSZ5265BT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/160
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/640
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/160
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/160
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/160
HTSL	Ta=150C	1008 hrs	0/160
DPA Per AECQ101, after 1000 cyc TC			0/4
DPA Per AECQ101, after 1008 hrs HAST			0/4
RSH	Ta=260C, 10 sec dwell		0/60

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MMSZ5270BT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/160
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/640
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/160
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/160
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/160
HTSL	Ta=150C	1008 hrs	0/160
DPA Per AECQ101, after 1000 cyc TC			0/4
DPA Per AECQ101, after 1008 hrs HAST			0/4
RSH	Ta=260C, 10 sec dwell		0/60

MMSZ9V1ET1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/80
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/320
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/80
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/80
HTSL	Ta=150C	1008 hrs	0/80
DPA Per AECQ101, after 1000 cyc TC			0/2
DPA Per AECQ101, after 1008 hrs HAST			0/2
RSH	Ta=260C, 10 sec dwell		0/30

MBR0520LT3G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/80
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/320
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
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

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MBR130T1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/80
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/320
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/80
HTSL	Ta=150C	1008 hrs	0/80
DPA Per AECQ101, after 1000 cyc TC			0/2
DPA Per AECQ101, after 1008 hrs H3TRB			0/2
RSH	Ta=260C, 10 sec dwell		0/30

MBR0540T3G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/80
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/320
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/80
HTSL	Ta=150C	1008 hrs	0/80
DPA Per AECQ101, after 1000 cyc TC			0/2
DPA Per AECQ101, after 1008 hrs H3TRB			0/2
RSH	Ta=260C, 10 sec dwell		0/30

SOD-323
BAT54HT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs H3TRB			0/6
RSH	Ta=260C, 10 sec dwell		0/90

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MM3Z43VT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs H3TRB			0/6
RSH	Ta=260C, 10 sec dwell		0/90

TSOP-6
MBT35200MT1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/252
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/1008
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/252
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/252
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/252
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/252
HTSL	Ta=150C	1008 hrs	0/252
HTSL	Ta=175C	1008 hrs	0/252
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs HAST			0/6
RSH	Ta=260C, 10 sec dwell		0/90

SOT-223
BCP69T1G

Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
HAST+PC	Ta=130C RH=85% p=~18.8psig bias=80% rated V or100V Max	96 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
DPA Per AECQ101, after 1008 hrs HAST			0/6
RSH	Ta=260C, 10 sec dwell		0/90

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SC88 and SC88A
MSQA6V1W5T2G

Test:	Conditions:	Interval:	Results
Precondition	MSL1@ 260C , 3 X IR at 260 C/260 C		0/480
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTSL	Ta=150C	1008 hrs	0/240
DPA Per AECQ101, after 1000 cyc TC			0/6
RSH	Ta=260C, 10 sec dwell		0/90

Package: SC75
DTC114EET1G

Test:	Conditions:	Interval:	Results
HTRB	Ta=150C, Vds=80% Rated	1008 hrs	0/240
Precondition	MSL1@ 260C , 3 X IR at 260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/240
TC+PC	Ta= -65 C to 150 C air to air	1000 cyc	0/240
HTSL	Ta= 150C	1008 hrs	0/240
DPA post TC 1000 cycles			0/6
DPA post H3TRB 1008 hrs			0/6
RSH	Ta=260C, 10 sec dwell		0/90

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ELECTRICAL CHARACTERIZATION PLAN:

Datasheet specifications and product electrical performance will remain unchanged

Characterization of each qual vehicle device will be performed to the following requirements:

1) Three temperature characterization on 30 units from 3 lots
2) ESD performance (HBM, MM) on 15 units from 1 lot

ELECTRICAL CHARACTERIZATION RESULTS:

Available upon request

CHANGED PART IDENTIFICATION:

Products assembled with the Copper Wire from the ON Semiconductor facility will have a Finish Good Date Code 1005 representing Work Week 05, 2010 or newer.

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AFFECTED DEVICE LIST

MMBTA42LT1
MMBTA42LT1G
MMBTA42LT1H
MMBTA42LT3G
SMBT1565LT1
SMBT1565LT1G
SMMBTA42LT1
SMMBTA42LT1G
HN2D02FUTW1T1G
BAS21DW5T1G
BAS21DW5T1
M1MA151KT1G
M1MA151WAT1G
M1MA151WKT1
M1MA151WKT1G
M1MA152KT1G
M1MA152WAT1G
M1MA152WKT1G
MSA1162GT1
MSA1162GT1G
MSA1162YT1G
MSB709-RT1G
MSB710-RT1G
MSB92T1G
MSC2712GT1
MSC2712GT1G
MSC2712GT1H
MSC2712YT1G
MSC2712YT1H
MSD1328-RT1G
MSD1328-ST1G
MSD42T1G
MSD601-RT1G
MSD601-ST1G
MSD602-RT1G
MUN2111T1
MUN2111T1G
MUN2112T1
MUN2112T1G
MUN2113T1G
MUN2114T1
MUN2114T1G
MUN2211JT1G
MUN2211T1
MUN2211T1G
MUN2211T3G
MUN2212T1
MUN2212T1G
MUN2213T1
MUN2213T1G
MUN2214T1
MUN2214T1G
MUN2214T3G



MUN2215T1G
MUN2216T1G
MUN2230T1G
MUN2232T1G
MUN2233T1G
MUN2234T1
MUN2234T1G
MUN2237T1G
MUN2240T1G
NSVMUN2233T1G
SFMUN2132T1G
SFMUN2211T1G
SFMUN2216T1G
SFMUN2232T1G
SFMUN2233T1G
SFSMUN101T1
SFSMUN101T1G
SFSMUN2111T3G
SFSMUN2112T1G
SFSMUN2113T1G
SFSMUN2212T1G
SFSMUN2213T1
SFSMUN2213T1G
SFSSV1MUN2211T1G
SMUN101T1
SMUN101T1G
SMUN2111T1
SMUN2111T1G
SMUN2111T3
SMUN2111T3G
SMUN2112T1G
SMUN2211T1
SMUN2211T1G
SMUN2211T3G
SMUN2212T1G
SMUN2213T1G
SMUN2214T1G
SSV1MUN2211T1
SSV1MUN2211T1G
NSVMMBD352WT1G
MMBD717LT1G
MMBD352WT1G
SBAT54AWT1G
BAT54SWT1G
BAT54AWT1G
SMUN5112T1G
MUN5114T1G
MUN5215T1G
MUN5113T3G
MUN5214T1G
MUN5113T1G
MUN5213T1G
MUN5112T1G
MUN5111T1G
MUN5211T1G



MUN5135T1G
MUN5133T1G
MUN5235T1G
MUN5132T1G
MUN5131T1G
MSD42WT1G
MSD42SWT1G
MUN5233T1G
MUN5232T1G
MUN5230T1G
MMBD770T1G
MMBD330T1G
SMUN5114T1G
SMUN5213T1G
SMUN5211T3G
MUN5212T1G
SMUN5233T1G
SMUN5212T1G
SMUN5111T1G
NSVMUN5132T1G
SMUN5133T1G
SFMUN5213T1G
SFMUN5133T1G
SFMUN5111T1G
SFMUN5211T1G
SFMUN5235T1G
SFMUN5212T1G
BAT54WT1G
BAT54CWT1G
SMUN5112T1
MUN5113T3
MUN5212T1
MUN5111T1
MUN5211T1
MUN5133T1
MUN5132T1
MUN5233T1
SMUN5114T1
SMUN5211T3
MMBD352WT1
BAT54SWT1
MUN5135T1H
MUN5235T1H
MUN5212T1H
BAT54CWT1H
BAT54SWT1H
BAT54AWT1H
SBAW56TT1G
NSVBAV70TT3G
NSVBAV70TT1G
DA121TT1G
DAP222T1G
DAP222G
DAN222T1G
DAN222G

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BAV70TT1G
BAW56TT1G
BAS16TT1G
NSVBAV70TT1
DAN222T1
DAN222H
BAV70TT1H
BC847CTT1G
BC847BTT1G
DTA114EET1G
SDTC114YET1G
DTA115EET1G
DTC114YET1G
S2SC4617G
2SA1774G
2SC4617G
2SC4617T1G
SDTC114EET1G
SDTA114YET1G
DTC114TET1G
DTA143EET1G
MMBT2222ATT1G
MMBT2222ATT3G
BC857BTT1G
MMBT3906TT1G
BAT54CTT1G
MMBT3904TT1G
2SA1774T1G
S2SA1774G
DTC114EET1G
DTC124EET1G
DTC144EET1G
DTC143EET1G
DTC143ZET1G
DTC124XET1G
DTC123JET1G
DTC115EET1G
DTA144EET1G
DTA114YET1G
DTA114TET1G
DTA143ZET1G
SFSDTA114YET1
SDTA114YET1
SDTC114EET1
MMBT3904TT1
DTA114EET1
DTA114YET1H
DTC114EET1H
DTC114YET1H
MMBT3906TT1H
MMBT3904TT1H
DTC144EET1H
SMBT2000T1
SMBT2001T1
SMBT2002T1

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MMQA20VT3
MMQA6V2T1
MMQA27VT1
MMQA18VT1
SMQA1000T1
SMQA2000T1
SZMMQA5V6T1
SZMMQA15VT1G
S1ZMMQA27VT1G
S1ZMMQA33VT1G
MMQA18VT1G
MMQA20VT1G
MMQA33VT1G
MMQA20VT3G
MMQA22VT1G
MMQA5V6T1G
MMQA5V6T3G
MMQA12VT1G
MMQA24VT1G
MMQA6V2T1G
MMQA27VT1G
MMQA6V2T3G
MMQA15VT1G
MMQA6V8T1G
SMQA1000T1G
SMQA2000T1G
SMS12T1G
SMS05T1G
SZMMQA27VT1G
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SBAS16LT1
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SMMBD2835LT1G
BAS116LT3G
SBAV199LT3G