

| PRODUCT/PROCESS CHANGE NOTIFICATION TO CUSTOMER | | | |
|--|--|------------------------------|--|
| PCN Number: | LNC 100401 | PCN Issue Date: | 25th Apr' 2010 |
| Contact: | Contact your local LRC Sales Office | Phone: | Contact your local LRC Sales Office |
| Change Title: | Copper Wire replacing Gold Wire in the SOT23 Packages | | |
| Proposed First Shipping Date : | Jul, 2010 | | |
| Samples Availability Date : | Apr, 2010 | | |
| Final conversion date: | Jul, 2010 | | |
| Change Category: | Semiconductor assembly – wire bond | | |
| Demand for Change: <p>Today's market is driving for lower cost/price, better electrical performance (such as Lower VCEsat) and higher thermal dissipation. Copper wire mechanical properties (vs gold wire) will help to reduce the wire defects (eg. sagging/broken wire) in the plastic package encapsulation too. Copper wire can achieve these while meeting AEC & JEDEC reliability requirements</p> | | | |
| Change Description: <p>LRC is notifying customers of its use of Copper Wire (in place of Gold Wire) for their SOT23 packages. Discrete products built with general purpose transistor, switching transistor, biased-resistor transistor, schottky diode, and switching diode platforms are represented by this Process Change Notice. The mold compound, die, tin anode and lead frame materials will remain the same. Reliability Qualification and full electrical characterization over temperature to ensure device functionality and electrical specifications are met.</p> <p>Devices listed in this PCN will be converted to Copper wire starting Jul, 2010. Conversion of specific devices will be notified, and devices containing Copper wire can be identified by the date code.</p> | | | |
| Anticipated Function & Reliability : <p>Reliability testing was performed on qualification chosen based on die size, voltage rating, and run rates, please refer to related reliability report.</p> <p>All of Data are available , and can be provided based upon requirement.</p> | | | |
| Affected Device list <p>Please refer to the Appecdix 1</p> | | | |
| Approved by: Raymond Wang | | Job Title: QA manager | Date: 2010-4-25 |

Appendix 1

Affected Product list and Conversion Plan

| Affected Device list | Affected Device list | Affected Device list |
|----------------------|----------------------|----------------------|
| LDTA113TLT1G | LMUN2111LT1G | L8050PLT1G |
| LDTA113ZLT1G | LMUN2112LT1G | L8050QLT1G |
| LDTA114ELT1G | LMUN2113LT1G | L8050RLT1G |
| LDTA114GLT1G | LMUN2114LT1G | L8550PLT1G |
| LDTA114TLT1G | LMUN2115LT1G | L8550QLT1G |
| LDTA114WLT1G | LMUN2116LT1G | L8550RLT1G |
| LDTA114YLT1G | LMUN2130LT1G | L8050HPLT1G |
| LDTA115ELT1G | LMUN2131LT1G | L8050HQLT1G |
| LDTA115GLT1G | LMUN2132LT1G | L8050HRLT1G |
| LDTA115TLT1G | LMUN2133LT1G | L8550HPLT1G |
| LDTA123ELT1G | LMUN2134LT1G | L8550HQLT1G |
| LDTA123JLT1G | LMUN2135LT1G | L8550HRLT1G |
| LDTA123TLT1G | LMUN2136LT1G | L9012PLT1G |
| LDTA123YLT1G | LMUN2137LT1G | L9012QALT1G |
| LDTA124ELT1G | LMUN2137LT1G | L9012QLT1G |
| LDTA124GLT1G | LMUN2138LT1G | L9012RLT1G |
| LDTA124TLT1G | LMUN2140LT1G | L9012SLT1G |
| LDTA124XLT1G | LMUN2141LT1G | L9013PLT1G |
| LDTA125TLT1G | LMUN2211LT1G | L9013QALT1G |
| LDTA143ELT1G | LMUN2212LT1G | L9013QLT1G |
| LDTA143TLT1G | LMUN2213LT1G | L9013RLT1G |
| LDTA143XLT1G | LMUN2214LT1G | L9013SLT1G |
| LDTA143YLT1G | LMUN2215LT1G | L9014QLT1G |
| LDTA143ZLT1G | LMUN2216LT1G | L9014RLT1G |
| LDTA144ELT1G | LMUN2230LT1G | L9014SLT1G |
| LDTA144GLT1G | LMUN2231LT1G | L9015QLT1G |
| LDTA144TLT1G | LMUN2232LT1G | L9015RLT1G |
| LDTA144VLT1G | LMUN2233LT1G | L9015SLT1G |
| LDTA144WLT1G | LMUN2234LT1G | L9014TLT1G |
| LDTB114ELT1G | LMUN2235LT1G | DBC817-25LT1G |
| LDTB123YLT1G | LMUN2236LT1G | H8050QLT1G |
| LDTB123YLT1G | LMUN2237LT1G | H8550QLT1G |
| LDTB123YLT1G | LMUN2238LT1G | LMBTA42HLT1G |
| LDTC113YLT1G | LMUN2240LT1G | LMBTA92HLT1G |
| LDTC113ZLT1G | LMUN2241LT1G | LMBTA94HLT1G |
| LDTC114ELT1G | YLDTA144WLT1G | L2SA1365FLT1G |
| LDTC114GLT1G | YLDTC144WLT1G | LDTC143ZLT1G |
| LDTC114TLT1G | LBAS40-04LT1G | LDTC144EKALT1G |
| LDTC114WLT1G | LBAS40-05LT1G | LDTC144ELT1G |

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|--------------|---------------|----------------|
| LDTC114YLT1G | LBAS40-06LT1G | LDTC144GLT1G |
| LDTC115ELT1G | LBAS40LT1G | LDTC144TLT1G |
| LDTC115GLT1G | LBAS70-04LT1G | LDTC144VLT1G |
| LDTC115TLT1G | LBAS70-05LT1G | LDTC144WLT1G |
| LDTC123ELT1G | LBAS70-06LT1G | LDTD114ELT1G |
| LDTC123JLT1G | LBAS70LT1G | LDTD123ELT1G |
| LDTC123TLT1G | LBAT54LT1G | LDTD123YLT1G |
| LDTC123YLT1G | LBAT54ALT1G | SLBAT54CLT1G |
| LDTC124ELT1G | LBAT54CLT1G | LBAV23SLT1G |
| LDTC124GLT1G | LBAT54SLT1G | LSD2004SLT1G |
| LDTC124TLT1G | SMBAT54LT1G | LDAN202KLT1G |
| LDTC124XLT1G | LRB411DLT1G | SNLBAV99LT1G |
| LDTC125TLT1G | LRB421LT1G | LM1MA152WKLT1G |
| LDTC143ELT1G | LRB425LT1G | |
| LDTC143TLT1G | LRB491DLT1G | |
| LDTC143XLT1G | CHBAT54ALT1G | |
| LDTC143YLT1G | CHBAT54LT1G | |