



PRODUCT CHANGE NOTICE

1. TITLE Crescent Compound Bond System, Wire Bond Process	2. DOCUMENT NUMBER FV5-C-06-02
	3. DATE 24 MAY 2006

4. MANUFACTURER AND ADDRESS International Rectifier, HiRel Products 2270 Martin Ave. Santa Clara, CA 95050	5. MANUFACTURER PART NUMBER All IR HiRel DC/DC Converter Hybrids
	6. BASE PART NOT AVAILABLE
	7. NATIONAL STOCK NUMBER (NSN) 5962

8. CAGE 52467	9. EFFECTIVE DATE Feb 1, 2006 (Taiwan) May 1, 2006 (Santa Clara)	10. GOVERNMENT NUMBER NOT AVAILABLE
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11. POINT OF CONTACT MANUFACTURER'S REPRESENTATIVE OR CUSTOMER SERVICE REPRESENTATIVE (978) 534-5776	12. DRAWING NUMBER QML-38534
	13. SPECIFICATION NUMBER MIL-PRF-38534, Class H, K, E

14. PRODUCT CHANGE

This product change notice affects all IR HiRel DC/DC Converters, AD/DA Converters and Amplifier hybrid microcircuit related products. These include, but not limited to IR for the DC/DC series, AFL, M3G, LS, ART, and AHP product families, manufactured under the guidelines of MIL-PRF-38534. These products are currently manufactured at International Rectifier – Santa Clara, and its subcontractor Universal Scientific Industrial Co. in Taiwan.

International Rectifier announces the implementation of a crescent compound (security) bond system with its hybrid designs in an effort to enhance interconnect reliability with 0.001 and 0.0007 gold wire. This process involves the overlay of a compound bond over the exit of the crescent bond (see figure 1 below for exhibit). Studies conducted by International Rectifier have shown that the use of crescent compound bond system may not be completely justified in itself, however when considering the potential hazards linked with small wire bonding on thick film, the use of crescent compound bonds gain merit and is considered highly prudent. The benefit for using such wire bond system is to provide *assurance* against premature crescent bond failures due to factors and effects that may cause them to become weakened (e.g., Environmental and Mechanical Stress, 100% Non-Destruct Bond Pull, etc.). The use of crescent compound bonds over the crescent bond provides such assurance for high reliability, dense hybrid designs. As such IR HiRel Products, Santa Clara has incorporated this system as part of its MIL-PRF-38534 QML process technology.

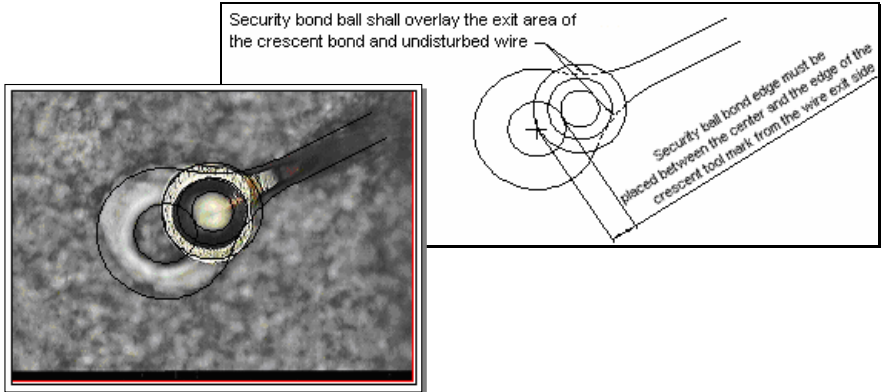


Figure 1 – Crescent Bond Placement and Criteria

15. APPROVAL DATE NOT AVAILABLE	16. APPROVING GOVERNMENT ACTIVITY NOT AVAILABLE
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17. REPRESENTATIVE PAUL HEBERT	18. SIGNATURE 	19. DATE MAY 24, 2006
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