PRODUCT CHANGE NOTICE

1. TITLE
RIC7113 Update - Part ID, SEE and QCI B5 Life

2. DOCUMENT NUMBER
FV5-C-16-0011

3. DATE
November 27, 2015

4. MANUFACTURER AND ADDRESS
International Rectifier, HiRel Products Inc
205 Crawford Street
Leominster, MA 01453

5. MANUFACTURER PART NUMBER
RIC7113A4SCS, RIC7113E4SCS, RIC7113L4SCS

6. BASE PART
RIC7113 part family

7. NATIONAL STOCK NUMBER (NSN)
NA

8. CAGE
69210

9. EFFECTIVE DATE
Date Code 1548

10. GOVERNMENT NUMBER
N/A

11. POINT OF CONTACT
Manufacturer’s Representative or
Customer Service Representative (978) 534-5776

12. DRAWING NUMBER
N/A

13. SPECIFICATION NUMBER
MIL-PRF-38535 / MIL-STD-883 TM5005

14. PRODUCT CHANGE
This GIDEP PCN is to announce product changes as follows:

1. Change part identification and marking from RIC7113 to RIC7S113 to denote changes herein.

2. Revise SEE (Single Event Effects) heavy ion environment characteristics and survivability based on Texas A&M University test results with higher ion energy (MeV) and depth of penetration.

3. QCI life test methodology (Class S) – QCI group B5 life test process for space (S) level, IC products will be redefined in two stages.

   Stage 1 - Life test (1,000 hours @125C) will be performed on each wafer lot as part of wafer lot acceptance. During incoming inspection a sample of 5 die from each wafer (minimum of 5 die from each wafer, 45 die minimum) will be subjected to 1,000 hour life test, similar to element evaluation requirements in MIL-PRF-38534, Class K.

   Stage 2 – Life test will be performed at the packaged product level in QCI group B5 for Class S inspection lots. A sample will be submitted to 340 hours burn-in at 125C. Sample inspection for small lots will be 12 parts, and 22 parts for large lots. Small lots shall not exceed 1,000 parts.

15. APPROVING GOVERNMENT ACTIVITY

16. GIDEP REPRESENTATIVE
Paul Hebert

17. SIGNATURE

18. DATE
November 27, 2015