

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
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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:

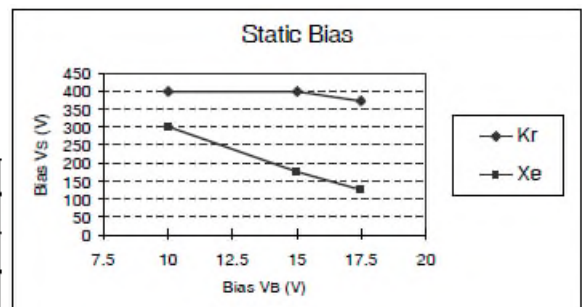
1. Change part identification and marking from RIC7113 to **RIC7S113** to denote changes herein.
2. Revise SEE (Single Event Effects) heavy ion environment characteristics and survivability based on Texas A&M University test results with higher ion energy (MeV) and depth of penetration.
3. QCI life test 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.

Single Event Effect Safe Operating Area

Ion	LET (MeV/(mg/cm ²))	Energy (MeV)	Range (µm)	Vcc/Vdd	Vs (V)		
					V _B = 10V	V _B = 15V	V _B = 17.5V
Kr	27.2	1089	143	20V	400	400	375
Xe	50.4	1618	128.7	20V	300	175	125



	16. APPROVING GOVERNMENT ACTIVITY
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17. GIDEP REPRESENTATIVE Paul Hebert	18. SIGNATURE 	19. DATE November 27, 2015
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