

PRODUCT CHANGE NOTICE

1. TITLE IRHLNM7S7214, IRHLF7S7214, IRHLG7S7214 and IRHLQ7S7214 SEE Response	2. DOCUMENT NUMBER FV5-C-22-0014
3. DATE May 31, 2022	

4. MANUFACTURER AND ADDRESS International Rectifier HiRel Products, Inc 205 Crawford Street Leominster, MA 01453	5. MANUFACTURER PART NUMBER See below for IR Part Number
6. BASE PART NA	
7. NATIONAL STOCK NUMBER (NSN) NA	

8. CAGE 69210	9. EFFECTIVE DATE May 31, 2022	10. GOVERNMENT NUMBER NA
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11. POINT OF CONTACT Manufacturer's Representative or Account Specialist (978) 534-5776	12. DRAWING NUMBER NA
13. SPECIFICATION NUMBER MIL-PRF-19500	

14. PRODUCT CHANGE
This GIDEP PCN is to announce a change with the published Single Event Effects (SEE) test response. The new typical SEE data changes the device use condition for VDS response with Xe ion @ VGS = -2V.

IRHLNM7S7214 (2N7611U8), IRHLF7S7214 (2N7610T2), IRHLG7S7214 (2N7614M1) and IRHLQ7S7214 (2N7615U6)
250V N-Channel TID Hardened MOSFET in a SMD-0.2, TO-205AF, MO-036AB and 28-Pin LCC package.

Device Characteristics:

Change From:



Table 2. Typical Single Event Effect Safe Operating Area

ION	LET (MeV/(mg/cm ²))	Energy (MeV)	Range (μm)	VDS (V)					
				@ VGS = 0V	@ VGS = -1V	@ VGS = -2V	@ VGS = -5V	@ VGS = -6V	@ VGS = -7V
Kr	34.1	573	69.6	250	250	250	250	250	250
Xe	56.8	1010	79.7	250	250	250	—	—	—

To:

Table 2. Typical Single Event Effect Safe Operating Area

ION	LET (MeV/(mg/cm ²))	Energy (MeV)	Range (μm)	VDS (V)					
				@ VGS = 0V	@ VGS = -1V	@ VGS = -2V	@ VGS = -5V	@ VGS = -6V	@ VGS = -7V
Kr	34.1	573	69.6	250	250	250	250	250	250
Xe	56.8	1010	79.7	250	250	250	—	—	—

Reference IR Datasheet PD-97852, PD-97833, PD-97832 and PD-97834 for additional part identifier information.

	16. APPROVING GOVERNMENT ACTIVITY
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17. GIDEP REPRESENTATIVE Paul Hebert	18. SIGNATURE 	19. DATE May 31, 2022
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