

PRODUCT CHANGE NOTICE

1. TITLE 200V, R6, N-Ch, SEE Typical Curve revision	2. DOCUMENT NUMBER FV5-C-20-0021
	3. DATE March 9, 2020

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

8. CAGE 69210	9. EFFECTIVE DATE March 9, 2020	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 Slash Sheet 746, 753, 755 and 760

14. PRODUCT CHANGE

This GIDEP PCN is to announce a revision with the SEE Safe Operating Area curve for the following International Rectifier Part No. Note that this revision is related to part test data specification only, and not due to a die physical change. Recent SEE testing revealed lower V_{DS} responses with the gold (Au) ion, and did not always replicate with the typical curves published in the datasheet. This observation was found to be true even when fresh samples were used from the original wafer qualification lot manufactured during the product development stage. Parts were tested for SEE at Texas A&M Cyclotron. This PCN has been coordinated with DLA-VQE prior to its release and to update the MIL-PRF-19500 slash sheets.

IRHMS67260 [2N7584T1], IRHYS67230 [2N7592T3], IRHNA67260 [2N7583U2], IRHNJ67230 [2N7591U3]

200V, N-Channel MOSFET, Size 3 and 6 die, TID Hardened.

Change Table 2. Typical Single Event Effect Safe Operating Area



From:

LET (MeV/(mg/cm ²))	Energy (MeV)	Range (μ m)	VDS (V)			
			@ VGS = 0V	@ VGS = -5V	@ VGS = -10V	@ VGS = -15V
42 \pm 5%	2450 \pm 5%	205 \pm 5%	200	200	200	190
61 \pm 5%	825 \pm 5%	66 \pm 7.5%	200	200	200	190
90 \pm 5%	1470 \pm 5%	80 \pm 5%	170	170	—	—

To:

LET (MeV/(mg/cm ²))	Energy (MeV)	Range (μ m)	VDS (V)				
			@ VGS = 0V	@ VGS = -4V	@ VGS = -5V	@ VGS = -10V	@ VGS = -15V
42 \pm 5%	2450 \pm 5%	205 \pm 5%	200	200	200	200	190
61 \pm 5%	825 \pm 5%	66 \pm 7.5%	200	200	200	200	190
90 \pm 5%	1470 \pm 5%	80 \pm 5%	150	150	110	—	—

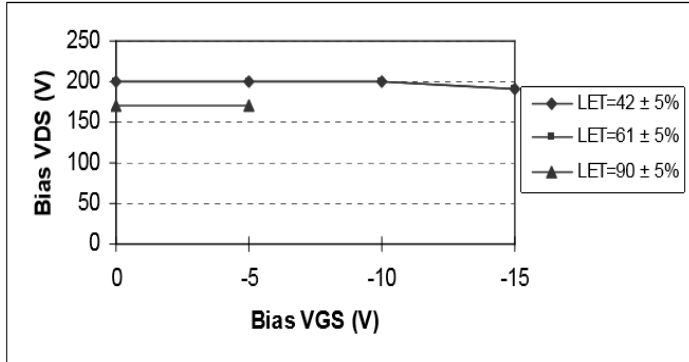
Reference: IR Datasheet PD-96923, PD-94667, PD-96925, and PD-94342 for additional part identifier information.

16. APPROVING GOVERNMENT ACTIVITY		
17. GIDEP REPRESENTATIVE Paul Hebert	18. SIGNATURE 	19. DATE March 9, 2020

14. PRODUCT CHANGE (cont.)

Fig a. Typical Single Event Effect, Safe Operating Area

From:



To:

