

PRODUCT CHANGE NOTICE

1. TITLE 250V, R6, N-Ch, SEE Typical Curve revision	2. DOCUMENT NUMBER FV5-C-21-0006
	3. DATE April 7, 2021

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 April 7, 2021	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 753, 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 Xe ion, and did not fully replicate with the typical curves published in the datasheet. 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.

250V, N-Channel MOSFET, Size 6 die, TID Hardened.

IRHMS67264 (2N7586T1), IRHNA67264 (2N7585U2), IRHNS67264 (2N7585U2A)



Change Table 2. Typical Single Event Effect Safe Operating Area

From:

LET (MeV/(mg/cm ²))	Energy (MeV)	Range (µm)	VDS (V)				
			@ VGS = 0V	@ VGS = -5V	@ VGS = -10V	@ VGS = -15V	@ VGS = -20V
44 ± 5%	1350 ± 5%	125 ± 5%	250	250	250	250	40
61 ± 5%	825 ± 5%	66 ± 7.5%	250	250	250	50	—
90 ± 5%	1470 ± 5%	80 ± 5%	75	75	—	—	—

To:

LET (MeV/(mg/cm ²))	Energy (MeV)	Range (µm)	VDS (V)				
			@ VGS = 0V	@ VGS = -5V	@ VGS = -10V	@ VGS = -15V	@ VGS = -20V
50 ± 5%	821 ± 5%	74.2 ± 5%	250	250	250	250	40
59 ± 5%	1040 ± 5%	79.7 ± 5%	225	225	225	50	—
85 ± 5%	1908 ± 5%	101.2 ± 5%	75	75	—	—	—

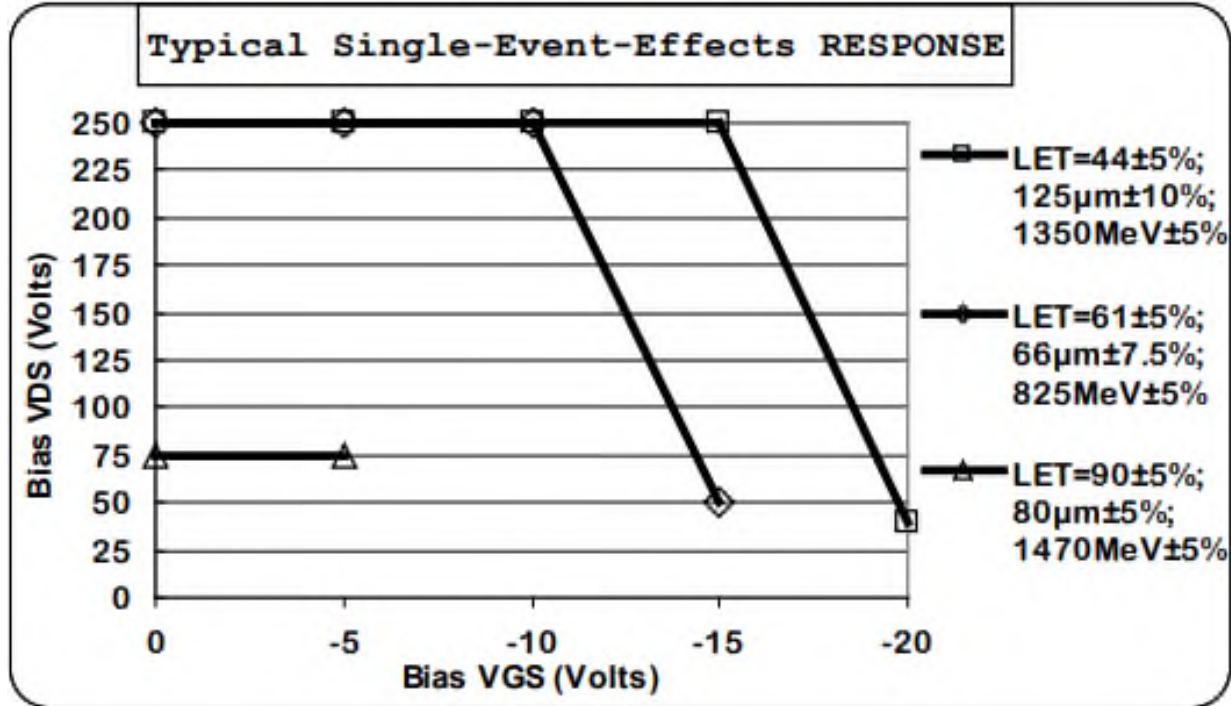
Reference: IR Datasheet PD-96990 and PD-97882 for additional part identifier information.

16. APPROVING GOVERNMENT ACTIVITY		
17. GIDEP REPRESENTATIVE Paul Hebert	18. SIGNATURE 	19. DATE April 7, 2021

14. PRODUCT CHANGE (cont.)

Fig a. Typical Single Event Effect, Safe Operating Area

From:



To:

