

# PRODUCT CHANGE NOTICE

1. TITLE <b>IRHSLNA57064, SEE Characteristics</b>		2. DOCUMENT NUMBER <b>FV5-C-19-0029</b>	
		3. DATE <b>April 10, 2019</b>	
4. MANUFACTURER AND ADDRESS <b>International Rectifier HiRel Products, Inc 205 Crawford Street Leominster, MA 01453</b>		5. MANUFACTURER PART NUMBER <b>See below for IR Part Number</b>	
		6. BASE PART <b>NA</b>	
		7. NATIONAL STOCK NUMBER (NSN) <b>NA</b>	
8. CAGE <b>69210</b>	9. EFFECTIVE DATE <b>April 10, 2019</b>	10. GOVERNMENT NUMBER <b>NA</b>	
11. POINT OF CONTACT <b>Manufacturer's Representative or Account Specialist (978) 534-5776</b>		12. DRAWING NUMBER <b>NA</b>	
		13. SPECIFICATION NUMBER <b>MIL-PRF-19500</b>	

14. PRODUCT CHANGE

This GIDEP PCN is to announce specifications change with the SEE curves for the following International Rectifier HiRel Part Number. Note that this change is related to part characterization update only, and not due to a die physical change.

## IRHSLNA57064

60V, Synchronous Rectifier, N-Channel MOSFET in a SMD-2 package



### TYPICAL SINGLE EVENT EFFECT SAFE OPERATING AREA

Update From:

To:

Table 2. Typical Single Event Effect Safe Operating Area

Ion	LET MeV/(mg/cm <sup>2</sup> )	Energy (MeV)	Range (μm)	V <sub>DS</sub> (V)				
				@V <sub>GS</sub> =0V	@V <sub>GS</sub> =-5V	@V <sub>GS</sub> =-10V	@V <sub>GS</sub> =-15V	@V <sub>GS</sub> =-20V
Kr	39.2	300	37.4	60	60	60	52	34
Xe	63.3	300	29.2	46	46	35	25	15
Au	86.6	2068	106	35	35	27	20	14

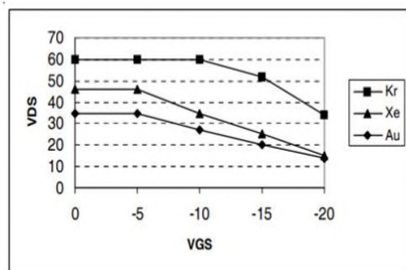


Fig a. Typical Single Event Effect, Safe Operating Area

Table 2. Typical Single Event Effect Safe Operating Area

LET (MeV/(mg/cm <sup>2</sup> ))	Energy (MeV)	Range (μm)	VDS (V)				
			@VGS = 0V	@VGS = -5V	@VGS = -10V	@VGS = -15V	@VGS = -20V
38 ± 5%	300 ± 7.5%	38 ± 7.5%	60	60	60	60	30
61 ± 5%	330 ± 7.5%	31 ± 10%	46	46	35	25	15
84 ± 5%	350 ± 10%	28 ± 7.5%	35	30	25	20	14

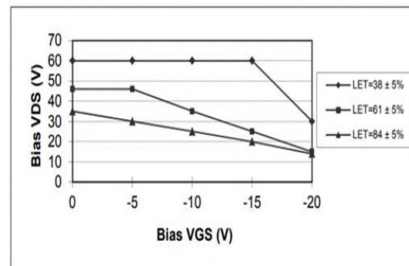


Fig a. Typical Single Event Effect, Safe Operating Area

Reference: IR Datasheet PD--94401

16. APPROVING GOVERNMENT ACTIVITY	
17. GIDEP REPRESENTATIVE <b>Paul Hebert</b>	18. SIGNATURE 
19. DATE <b>April 10, 2019</b>	