

# PRODUCT CHANGE NOTICE

1. TITLE <b>IRHG57110, SEE Characteristics</b>		2. DOCUMENT NUMBER <b>FV5-C-15-0018</b>
		3. DATE <b>May 13, 2015</b>
4. MANUFACTURER AND ADDRESS <b>International Rectifier 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>May 13, 2015</b>	10. GOVERNMENT NUMBER <b>NA</b>
11. POINT OF CONTACT <b>Manufacturer's Representative or Customer Service Representative (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 a change in the TID / SEE characteristics for the following International Rectifier Part No.

## IRHG57110

100V 100kRad Hi-Rel Quad N -Channel TID Hardened MOSFET in a MO-036AB package

Datasheet updated with new SEE characteristics



FROM:

Table 2. Single Event Effect Safe Operating Area (Per Die)

Ion	LET (MeV/(mg/cm <sup>2</sup> ))	Energy (MeV)	Range (μm)	Vds (V)					
				@Vgs=0V	@Vgs=-5V	@Vgs=-10V	@Vgs=-12.5V	@Vgs=-15V	@Vgs=-20V
Br	36.7	309	39.5	100	100	100	100	100	80
I	59.8	341	32.5	100	100	100	90	25	20

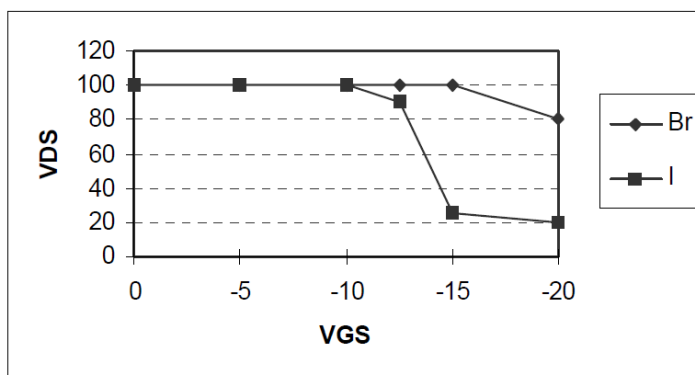


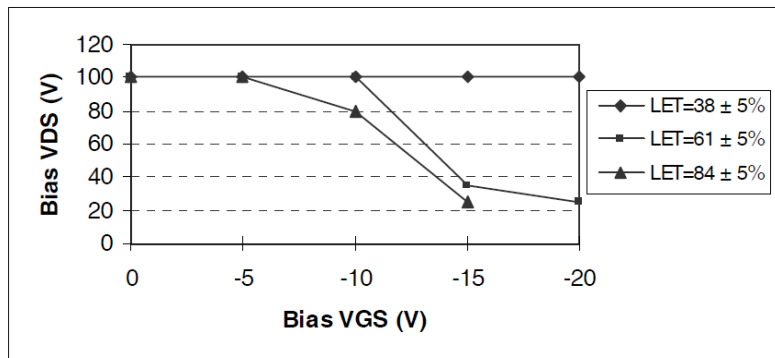
Fig a. Single Event Effect, Safe Operating Area

16. APPROVING GOVERNMENT ACTIVITY	
17. GIDEP REPRESENTATIVE <b>Paul Hebert</b>	18. SIGNATURE 
19. DATE <b>May 13, 2015</b>	

To:

**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%	100	100	100	100	100
61 ± 5%	330 ± 7.5%	31 ± 10%	100	100	100	35	25
84 ± 5%	350 ± 10%	28 ± 7.5%	100	100	80	25	-



**Fig a.** Typical Single Event Effect, Safe Operating Area

Reference: IR Datasheet PD-94432