



PRODUCT CHANGE NOTICE

1. TITLE IRHLNA77064, Datasheet Status Update		2. DOCUMENT NUMBER FV5-C-16-0018
		3. DATE February 22, 2016
4. MANUFACTURER AND ADDRESS International Rectifier 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 February 22, 2015	10. GOVERNMENT NUMBER NA
11. POINT OF CONTACT Manufacturer's Representative or Customer Service Representative (978) 534-5776		12. DRAWING NUMBER NA
		13. SPECIFICATION NUMBER MIL-PRF-19500
14. PRODUCT CHANGE This GIDEP PCN is to announce changes in datasheet specification limits, and change the status from Preliminary to Release for the following International Rectifier Part No IRHLNA77064 (2N7604U2) 60V 100kRad Hi-Rel Single N-Channel TID Hardened MOSFET in a SMD-2 package  Electrical Characteristics @ Tj = 25°C -IDSS Zero Gate Voltage Drain Current @ Tj = 125C: Change Spec Limit from 10uA to 15uA -Qg Total Gate Charge: Change Spec Limit from 151nC to 140nC -Qgs Gate-to-Source Charge: Change Spec Limit from 30ns to 40nC -td(on) Turn-On Delay Time: Change Spec Limit from 51ns to 90ns -td(off) Turn-Off Delay Time: Change Spec Limit from 110ns to 140ns -tr Rise Time: Change Spec Limit from 170ns to 310ns -tf Fall Time: Change Spec Limit from 17ns to 35ns Table 1. Electrical Characteristics @ Tj = 25°C, Post Total Dose Irradiation -IDSS Zero Gate Voltage Drain Current: Change Spec Limit from 10uA to 1uA -Change SOA Characteristic – See page 2 herein for details Reference: IR Datasheet PD-97177		
		16. APPROVING GOVERNMENT ACTIVITY
17. GIDEP REPRESENTATIVE Paul Hebert	18. SIGNATURE 	19. DATE February 22, 2015

Change SOA Characteristics 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= -3V	@VGS= -4V	@VGS= -5V	@VGS= -6V	@VGS= -7V	@VGS= -8V	@VGS= -9V	@VGS= -10V
Br	37	305	39	60	60	50	45	40	30	25	20	15
I	60	370	34	60	60	60	60	30	20	10	10	-
Au	84	390	30	60	60	60	50	25	-	-	-	-

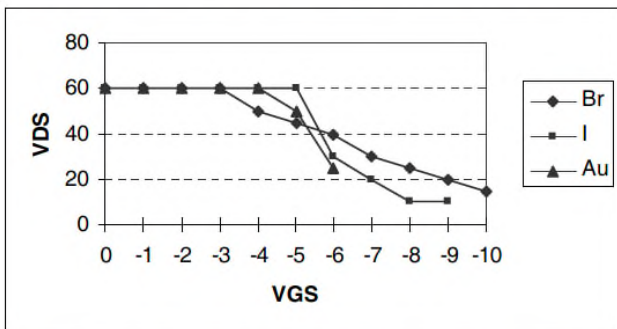


Fig a. Typical Single Event Effect, Safe Operating Area

To:

Table 2. Typical Single Event Effect Safe Operating Area

LET (MeV/(mg/cm ²))	Energy (MeV)	Range (μm)	VDS (V)					
			@VGS= 0V	@VGS= -2V	@VGS= -4V	@VGS= -5V	@VGS= -6V	@VGS= -7V
38 ± 5%	300 ± 7.5%	38 ± 7.5%	60	60	60	60	60	-
62 ± 5%	355 ± 7.5%	33 ± 7.5%	60	60	60	60	-	-
85 ± 5%	380 ± 7.5%	29 ± 7.5%	60	60	60	-	-	-

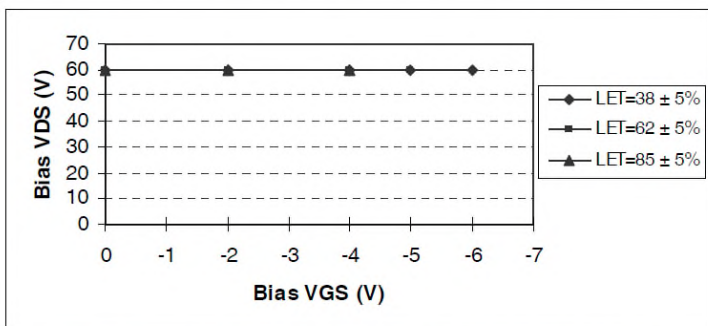


Fig a. Typical Single Event Effect, Safe Operating Area