
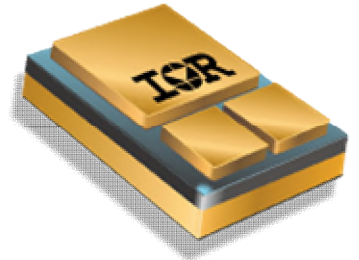


# PRODUCT CHANGE NOTICE

1. TITLE <b>IRHLNA797064, Datasheet Change</b>		2. DOCUMENT NUMBER <b>FV5-C-17-0033</b>	
		3. DATE <b>8/22/2017</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>8/22/2017</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 a change in the Datasheet characteristics for the following International Rectifier Part No. and to change the datasheet status from Preliminary to Final.  <b>IRHLNA797064 [2N7622U2]</b> 60V, 100kRad, P-Channel, TID Hardened MOSFET in a SMD-2 Surface Mount package  <b>Features</b> Add ESDS Rating Class 3B  <b>Electrical Characteristics @ Tj = 25°C</b> Change RDS(on) Static Drain-to-Source On-State Resistance; from max limit of 0.015ohm to 0.017ohm Change gfs Forward Transconductance; from min limit of 82S to 65S Change IDSS Zero Gate Voltage Drain Current (Tj= 125°C); from max limit of -10uA to -25uA Change Qg Total Gate Charge; from max limit of 190nC to 130nC Change Qgs Gate-to-Source Charge; from max limit of 53nC to 35nC Change Qgd Gate-to-Drain (Miller) Charge; from max limit of 56nC to 55nC  <b>Source-Drain Diode Ratings and Characteristics</b> Change trr Reverse Recovery Time; from max limit of 159ns to 150ns  <b>Radiation Characteristics</b> <b>Table 1. Electrical Characteristics @ Tj = 25°C, Post Total Dose Irradiation</b>  Change IDSS Zero Gate Voltage Drain Current; from max limit of -10uA to -1uA Change RDS(on) Static Drain-to-Source On-State Resistance (TO-3); from max limit of 0.015ohm to 0.019ohm Change RDS(on) Static Drain-to-Source On-State Resistance (SMD-2); from max limit of 0.015ohm to 0.017ohm  Reference: IR Datasheet PD-97174			
		16. APPROVING GOVERNMENT ACTIVITY	
17. GIDEP REPRESENTATIVE Paul Hebert		18. SIGNATURE 	19. DATE 8/22/2017



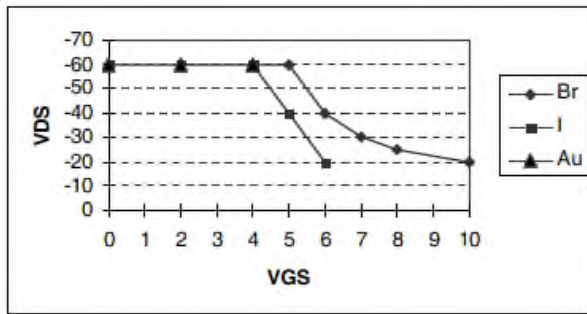
**Radiation Characteristics**

**Table 2. Single Event Effect Safe Operating Area**

Change Table 2 and Figure a from:

**Table 2. Single Event Effect Safe Operating Area**

Ion	LET (MeV/(mg/cm <sup>2</sup> ))	Energy (MeV)	Range (μm)	VDS (V)								
				@ VGS=0V	@ VGS=2V	@ VGS=4V	@ VGS=5V	@ VGS=6V	@ VGS=7V	@ VGS=8V	@ VGS=10V	
Br	37	305	39	-60	-60	-60	-60	-40	-30	-25	-20	
I	60	370	34	-60	-60	-60	-40	-20	-	-	-	
Au	82	390	30	-60	-60	-60	-	-	-	-	-	

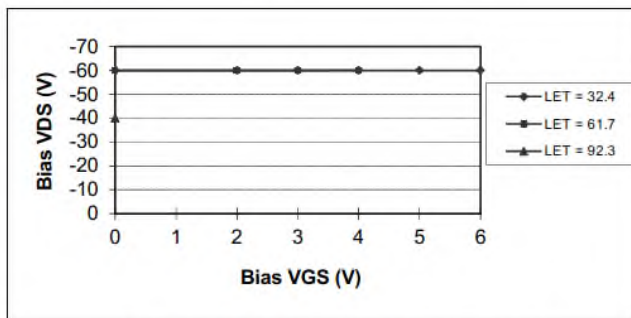


**Fig a. Single Event Effect, Safe Operating Area**

to:

**Table 2. Typical Single Event Effect Safe Operating Area**

LET (MeV/(mg/cm <sup>2</sup> ))	Energy (MeV)	Range (μm)	V <sub>DS</sub> (V)					
			@VGS=0V	@VGS=2V	@VGS=3V	@VGS=4V	@VGS=5V	@VGS=6V
32.4	679	83.3	-60	-60	-60	-60	-60	-60
61.7	584	48.7	-60	-60	-60	-60	---	---
92.3	1156	65.1	-40	---	---	---	---	---



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