

# PRODUCT CHANGE NOTICE

1. TITLE <b>IRHNM597110 Electrical Characteristics</b>		2. DOCUMENT NUMBER <b>FV5-C-19-0078</b>
		3. DATE <b>August 19, 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 Numbers</b>
		6. BASE PART <b>NA</b>
		7. NATIONAL STOCK NUMBER (NSN) <b>NA</b>
8. CAGE <b>69210</b>	9. EFFECTIVE DATE <b>August 19, 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 datasheet parameters for the following International Rectifier Part No. Note that this change is related to part specification only, and not due to a die physical change.

## IRHNM597110

-100V 100kRad Hi-Rel Single P-Channel TID Hardened MOSFET in a SMD-0.2 package



Table 1. Electrical Characteristics @ Tj = 25°C, Post Total Dose Irradiation

RDSon [Static Drain-to-Source On-State Resistance (TO-3)], maintain max Limit @ 100K Rads (Si) at 0.916 Ohms  
 RDSon [Static Drain-to-Source On-State Resistance (TO-3)], increase max Limit @ 300K Rads (Si) from 0.916 Ohms to 0.936 Ohms

Table 1. Electrical Characteristics @ Tj = 25°C, Post Total Dose Irradiation

Parameter	Up to 100K Rads (Si) <sup>1</sup>		Up to 300K Rads (Si) <sup>1</sup>		Units	Test Conditions
	Min	Max	Min	Max		
BV <sub>DSS</sub>	-100	—	-100	—	V	V <sub>GS</sub> = 0V, I <sub>D</sub> = -1.0mA
V <sub>GS(th)</sub>	-2.0	-4.0	-2.0	-4.0		V <sub>GS</sub> = V <sub>DS</sub> , I <sub>D</sub> = -1.0mA
I <sub>GSS</sub>	—	-100	—	-100	nA	V <sub>GS</sub> = -20V
I <sub>GSS</sub>	—	100	—	100		V <sub>GS</sub> = 20V
I <sub>DSS</sub>	—	-10	—	-10	μA	V <sub>DS</sub> = -80V, V <sub>GS</sub> = 0V
R <sub>DS(on)</sub>	—	0.916	—	0.916	Ω	V <sub>GS</sub> = -12V, I <sub>D</sub> = -2.0A
R <sub>DS(on)</sub>	—	1.2	—	1.2	Ω	V <sub>GS</sub> = -12V, I <sub>D</sub> = -2.0A
V <sub>SD</sub>	—	-5.0	—	-5.0	V	V <sub>GS</sub> = 0V, I <sub>D</sub> = -3.1A

1. Part Number IRHNM597110, IRHNM593110 and additional part numbers listed on page 10.

Reference Datasheet PD-97179 for additional part identifier information.

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