PRODUCT CHANGE NOTICE

1. TITLE
IRHLUB770Z4, Radiation Test (TID) Specification Change

2. DOCUMENT NUMBER
FV5-C-17-0043

3. DATE
September 21, 2017

4. MANUFACTURER AND ADDRESS
International Rectifier HiRel Products, Inc
205 Crawford Street
Leomister, MA 01453

5. MANUFACTURER PART NUMBER
See below for IR Part Numbers

6. BASE PART
NA

7. NATIONAL STOCK NUMBER (NSN)
NA

8. CAGE
69210

9. EFFECTIVE DATE
September 21, 2017

10. GOVERNMENT NUMBER
NA

11. POINT OF CONTACT
Manufacturer’s Representative or
Account Specialist (978) 534-5776

12. DRAWING NUMBER
NA

13. SPECIFICATION NUMBER
MIL-PRF-19500/744

14. PRODUCT CHANGE
This GIDEP PCN is to announce a change in the Radiation Test (TID) specifications for the following part number.

IRHLUB770Z4
60V, Single N-Channel TID Hardened MOSFET in a UB package

RADIATION CHARACTERISTICS: Table 1. Electrical Characteristics @ Tj = 25°C, Post Total Dose Irradiation
R_{DS(on)} Static Drain-to-Source, On-State Resistance (TO-39), change max limit from 0.55ohm to 0.65ohm

Note that the R_{DS(on)} change stated above does not directly apply to the subject UB parts, it applies to the TID post radiation electrical test limit which is conducted using a TO-39 style package as a test vehicle.

Table 2. Typical Single Event Effect Safe Operating Area. Update Table 2 and Figure A.

<table>
<thead>
<tr>
<th>Previous</th>
<th>Updated</th>
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<tbody>
<tr>
<td>$V_{GS}$ (Volts)</td>
<td>$V_{GS}$ (Volts)</td>
</tr>
<tr>
<td>$0$</td>
<td>$1.60$</td>
</tr>
<tr>
<td>$-2$</td>
<td>$1.50$</td>
</tr>
<tr>
<td>$-4$</td>
<td>$1.00$</td>
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<tr>
<td>$-6$</td>
<td>$0.50$</td>
</tr>
<tr>
<td>$-8$</td>
<td>$0.00$</td>
</tr>
</tbody>
</table>

Table 2 Typical Safe-Operating-Area

16. APPROVING GOVERNMENT ACTIVITY
Paul Hebert

17. GIDEP REPRESENTATIVE
Paul Hebert

18. SIGNATURE
Paul Hebert

19. DATE
September 21, 2017
Fig 4. Normalized On-Resistance Vs. Temperature. Update Figure 4

Reference Datasheet PD-95813