IRHG57110, SEE Characteristics

5. MANUFACTURER PART NUMBER
See below for IR Part Number

6. BASE PART
NA

7. NATIONAL STOCK NUMBER (NSN)
NA

8. EFFECTIVE DATE
May 13, 2015

9. DRAWING NUMBER
MIL-PRF-19500

10. GOVERNMENT NUMBER
NA

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

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)

<table>
<thead>
<tr>
<th>Ion</th>
<th>LET (MeV/(mg/cm²))</th>
<th>Energy (MeV)</th>
<th>Range (μm)</th>
<th>Vos (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>@Vgs=0V @Vgs=-5V @Vgs=-10V @Vgs=-12.5V @Vgs=-15V @Vgs=-20V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Br</td>
<td>36.7</td>
<td>309</td>
<td>39.5</td>
<td>100</td>
</tr>
<tr>
<td>I</td>
<td>59.8</td>
<td>341</td>
<td>32.5</td>
<td>100</td>
</tr>
</tbody>
</table>

Fig a. Single Event Effect, Safe Operating Area

16. APPROVING GOVERNMENT ACTIVITY

Paul Hebert
May 13, 2015
To:

Table 2. Typical Single Event Effect Safe Operating Area

<table>
<thead>
<tr>
<th>LET (MeV/(mg/cm²))</th>
<th>Energy (MeV)</th>
<th>Range (µm)</th>
<th>VDS (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>@VGS = 0V</td>
<td>@VGS = -5V</td>
<td>@VGS = -10V</td>
</tr>
<tr>
<td>38 ± 5%</td>
<td>300 ± 7.5%</td>
<td>38 ± 7.5%</td>
<td>100</td>
</tr>
<tr>
<td>61 ± 5%</td>
<td>330 ± 7.5%</td>
<td>31 ± 10%</td>
<td>100</td>
</tr>
<tr>
<td>84 ± 5%</td>
<td>350 ± 10%</td>
<td>28 ± 7.5%</td>
<td>100</td>
</tr>
</tbody>
</table>

Fig a. Typical Single Event Effect, Safe Operating Area

Reference: IR Datasheet PD-94432