GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

PRODUCT CHANGE NOTICE

1. TITLE
IRHQ57110, SEE Characteristics

2. DOCUMENT NUMBER
FV5-C-15-0011

3. DATE
March 10, 2015

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
March 10, 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 a change in the TID / SEE characteristics for the following International Rectifier Part No.

IRHQ57110
100V Quad N-Channel MOSFET in a 28-pin LCC 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></td>
<td></td>
<td></td>
<td>@Vos=0V</td>
</tr>
<tr>
<td>Cu</td>
<td>28</td>
<td>285</td>
<td>43</td>
<td>100</td>
</tr>
<tr>
<td>Br</td>
<td>36.8</td>
<td>305</td>
<td>39</td>
<td>100</td>
</tr>
<tr>
<td>I</td>
<td>59.8</td>
<td>343</td>
<td>32.6</td>
<td>50</td>
</tr>
</tbody>
</table>

Fig a. Single Event Effect, Safe Operating Area

16. APPROVING GOVERNMENT ACTIVITY

17. GIDEP REPRESENTATIVE
Paul Hebert

18. SIGNATURE

19. DATE
March 10, 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>
<th>@VGS = 0V</th>
<th>@VGS = -5V</th>
<th>@VGS = -10V</th>
<th>@VGS = -15V</th>
<th>@VGS = -20V</th>
</tr>
</thead>
<tbody>
<tr>
<td>38 ± 5%</td>
<td>300 ± 7.5%</td>
<td>38 ± 7.5%</td>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>61 ± 5%</td>
<td>330 ± 7.5%</td>
<td>31 ± 10%</td>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>35</td>
<td>25</td>
</tr>
<tr>
<td>84 ± 5%</td>
<td>350 ± 10%</td>
<td>28 ± 7.5%</td>
<td></td>
<td>100</td>
<td>100</td>
<td>80</td>
<td>25</td>
<td>-</td>
</tr>
</tbody>
</table>

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

Reference: IR Datasheet PD-94211D