# PRODUCT CHANGE NOTICE

**1. TITLE**
IRHLYS77034CM, Datasheet Status Update

**2. DOCUMENT NUMBER**
FV5-C-16-0009

**3. DATE**
November 27, 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**
November 27, 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 changes in datasheet parameters and from Preliminary to Release status for the following International Rectifier Part No

**IRHLYS77034CM (2N7607T3)**
60V 100kRad Hi-Rel Single N-Channel TID Hardened MOSFET in a Low-Ohmic TO-257AA package

**Electrical Characteristics @ Tj = 25°C**
- \( g_F \) Forward Transconductance  
  Change test condition from \( V_{DS} = 10V \) to \( V_{DS} = 15V \)
- \( Q_{GD} \) Gate-to-Drain (‘Miller’) Charge  
  Change Spec Limit from 13nC to 16nC
- \( t_{d(on)} \) Turn-On Delay Time  
  Change Spec Limit from 30 to 26ns
- \( t_{r} \) Rise Time  
  Change Spec Limit from 7.0 to 110ns
- \( t_{f} \) Fall Time  
  Change Spec Limit from 20 to 28ns

**Source-Drain Diode Ratings and Characteristics**
- \( t_{rr} \) Reverse Recovery Time  
  Change Spec Limit from 200ns to 160ns

Replace SEE Curve and SEE Table 2

Replace SOA Curve (Figure 13)
a) Adjust the 10msec 48V SOA point. Change from 1.18Amps to 0.98A (50% Derating of the average \( I_d \) current of 1.97A)  
b) Adjust the 10msec 60V SOA point. Change from 0.84Amps to 0.70A (50% Derating of the average \( I_d \) current of 1.40A)

Reference: IR Datasheet PD-97291

**16. APPROVING GOVERNMENT ACTIVITY**

**17. GIDEP REPRESENTATIVE**
Paul Hebert

**18. SIGNATURE**

**19. DATE**
November 27, 2015

GIDEP Form 97-5