## PRODUCT CHANGE NOTICE

**1. TITLE**
HFB16HY20CC, Ultra-Fast Common Cathode Diode

**2. DOCUMENT NUMBER**
FV5-C-11-005

**3. DATE**
February 28, 2011

**4. MANUFACTURER AND ADDRESS**
International Rectifier  
205 Crawford Street  
Leominster, 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**
February 22, 2011

**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 the addition of Toshiba XE13-B9144 (33-0275-06B) die coat to the following International Rectifier Part No.

HFB16HY20CC  
HFB16HY20CCSCS  
HFB16HY20CCSCX  
HFB16HY20CCSCV

**Description:** 200V 16A Hi-Rel Ultra-Fast Common Cathode Diode in a TO-257AA package

**Reason for Change:** Arcing can occur at high voltage as a result of surface charge build-up in the termination area. To prevent arcing, IR will apply a controlled amount of silicone based coating to the FRED die surface. The die coat acts as passivation to effectively suppress any arcing in the termination. This change will extend the die coat application from the 400V, where it is being used currently, to the 200V FRED product.

**Impact of Change:** No effect to form, fit, or function. Additional package weight of less than 3mg.

**Qualification:** As this process is qualified on higher voltage products, qualification is not required per MIL-PRF-19500. However, IR is performing GRP A, B, C, and E (partial) per MIL-PRF-19500 for internal validation.

**16. APPROVING GOVERNMENT ACTIVITY**

**17. GIDEP REPRESENTATIVE**
Paul Hebert

**18. SIGNATURE**
[Signature]

**19. DATE**
February 28, 2011