


# PRODUCT CHANGE NOTICE

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| 1. TITLE<br><b>Schottky Fab Change, 90CLQ100</b>   |  | 2. DOCUMENT NUMBER<br><b>FV5-C-20-0019A</b>                          |
|  |  | 3. DATE<br><b>March 20, 2020</b>                                     |
| 4. MANUFACTURER AND ADDRESS<br><b>International Rectifier HiRel Products, Inc<br/>205 Crawford Street<br/>Leominster, MA 01453</b>   |  | 5. MANUFACTURER PART NUMBER<br><b>See IR Part Number List Herein</b> |
|  |  | 6. BASE PART<br><b>NA</b>  |
|  |  | 7. NATIONAL STOCK NUMBER (NSN)<br><b>NA</b>                          |
| 8. CAGE<br><b>69210</b>  | 9. EFFECTIVE DATE<br><b>February 2020</b>  | 10. GOVERNMENT NUMBER<br><b>NA</b>                                   |
| 11. POINT OF CONTACT<br><b>Manufacturer's Representative or<br/>Account Specialist (978) 534-5776</b>  |  | 12. DRAWING NUMBER<br><b>NA</b>                                      |
|  |  | 13. SPECIFICATION NUMBER<br><b>MIL-PRF-19500</b>                     |
| 14. PRODUCT CHANGE<br><b>This amendment has been issued to add information about part identification. This amendment is complete.</b><br><br>This GIDEP PCN is to announce the change and qualification of a new wafer fabrication source for the Schottky diode parts listed below. IR HiRel has successfully re-qualified the product in accordance with MIL-PRF-19500 (JANS) to ensure product interchangeability.<br><br><b>90CLQ100</b><br>90A, 100V Schottky, Common Cathode Diode in a SMD-1 package<br><br><b>Change Schottky Source (Fab)</b><br><br>-Change Fab from Vishay Intertechnology, Inc. (Italy) to Panjit Semiconductor (Taiwan)<br><br><b>Electrical Specifications</b><br><br>-V <sub>FM</sub> [Max Forward Voltage Drop], T <sub>j</sub> =-55C, change from 0.72V to 0.86V @ 15A<br>-V <sub>FM</sub> [Max Forward Voltage Drop], T <sub>j</sub> =-55C, change from 0.89V to 0.96V @ 30A<br>-V <sub>FM</sub> [Max Forward Voltage Drop], T <sub>j</sub> =-55C, change from 0.98V to 1.03V @ 40A<br>-V <sub>FM</sub> [Max Forward Voltage Drop], T <sub>j</sub> =25C, change from 0.71V to 0.76V @ 15A<br>-V <sub>FM</sub> [Max Forward Voltage Drop], T <sub>j</sub> =125C, change from 0.60V to 0.61V @ 15A<br>-I <sub>FM</sub> [Max Reverse Leakage Current], T <sub>j</sub> =25C, change from 0.07mA to 0.05mA<br>-I <sub>FM</sub> [Max Reverse Leakage Current], T <sub>j</sub> =125C, change from 17mA to 15mA<br><br><b>Part Identification</b><br>Products built with die from Panjit Semiconductor will be marked with the date code prefix "P" in order to identify the wafer fab origin.<br><br>Reference Datasheet PD-93953 for additional part identifier information.<br><br>IR HiRel (Infineon Technologies) remains fully committed to the business line and supporting our customers with the most reliable power semiconductor solutions. |  |  |
| 16. APPROVING GOVERNMENT ACTIVITY  |  |  |
| 17. GIDEP REPRESENTATIVE<br>Paul Hebert  | 18. SIGNATURE<br> | 19. DATE<br>February 20, 2020  |

