


# PRODUCT CHANGE NOTICE

1. TITLE <b>G450HHBK06P2 Characteristics</b>		2. DOCUMENT NUMBER <b>FV5-C-17-0015A</b>
		3. DATE <b>February 16, 2017</b>
4. MANUFACTURER AND ADDRESS <b>International Rectifier 205 Crawford Street Leominster, MA 01453</b>		5. MANUFACTURER PART NUMBER <b>See below for IR Part Number</b>
		6. BASE PART <b>NA</b>
		7. NATIONAL STOCK NUMBER (NSN) <b>NA</b>
8. CAGE <b>69210</b>	9. EFFECTIVE DATE <b>February 16, 2017</b>	10. GOVERNMENT NUMBER <b>NA</b>
11. POINT OF CONTACT <b>Manufacturer's Representative or Customer Service Representative (978) 534-5776</b>		12. DRAWING NUMBER <b>NA</b>
		13. SPECIFICATION NUMBER <b>MIL-PRF- 38534</b>
14. PRODUCT CHANGE  <p><b>This amendment has been issued to add specification changes to the Diode Characteristics (Qrr and trr) information in block 14. This amendment is complete.</b></p> <p>This GIDEP PCN is to announce a change in the electrical test conditions for the following International Rectifier Part No.</p> <p><b>G450HHBK06P2</b></p> <p>450A, 600V IGBT with FWD half bridge configuration in a Hi-Rel INT-A-Pak2 package</p> <p><b>Datasheet updated with revised electrical test conditions</b></p> <p>Test Condition for <i>Switching Inductive Load Characteristics</i> [<math>t_{d(on)}</math>, <math>t_r</math>, <math>E_{on}</math>, <math>t_{d(off)}</math>, <math>t_f</math>, <math>E_{off}</math>]  <i>from</i>  <math>V_{CC}=300V</math>, <math>I_C=450A</math>, <math>V_{GE}=15V</math>, <math>R_{G(on)}=20\Omega</math>, <math>R_{G(off)}=10\Omega</math>, <math>L=100\mu H</math>  <i>to</i>  <math>V_{CC}=300V</math>, <math>I_C=450A</math>, <math>V_{GE}=+15V</math>, <math>R_{G(on)}=5\Omega</math>, <math>R_{G(off)}=10\Omega</math>, <math>L=200\mu H</math></p> <p>Test Condition for <i>Diode Characteristics</i> [<math>Q_{rr}</math>, <math>I_{rr}</math>, <math>t_{rr}</math>]  <i>from</i>  <math>V_R=300V</math>, <math>I_C=450A</math>, <math>di/dt=-1100A/\mu s</math>  <i>to</i>  <math>V_R=300V</math>, <math>I_F=450A</math>, <math>di/dt=-1800A/\mu s</math></p> <p><b>Test Specification Limit for Diode Characteristics [<math>Q_{rr}</math>, <math>t_{rr}</math>]</b></p> <p><b>Reverse Recovery Charge [<math>Q_{rr}</math>]</b>  Change maximum limit <i>from</i> <math>20\mu C</math> <i>to</i> <math>36\mu C</math></p> <p><b>Reverse Recovery Time [<math>t_{rr}</math>]</b>  Change maximum limit <i>from</i> <math>205ns</math> <i>to</i> <math>260ns</math></p> <p>Reference: IR Datasheet PD-97013</p>		
16. APPROVING GOVERNMENT ACTIVITY		
17. GIDEP REPRESENTATIVE <b>Paul Hebert</b>	18. SIGNATURE 	19. DATE <b>February 28, 2017</b>

