


PRODUCT CHANGE NOTICE

1. TITLE G450HHBK06P2 Characteristics		2. DOCUMENT NUMBER FV5-C-15-0012
		3. DATE March 24, 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 24, 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- 38534
14. PRODUCT CHANGE This GIDEP PCN is to announce a change in the Electrical and Thermal characteristics for the following International Rectifier Part No. G450HHBK06P2 450A, 600V IGBT with FWD half bridge configuration in a Hi-Rel INT-A-Pak2 package Datasheet updated with revised electrical characteristics Diode Characteristics @ Tj = 25°C, with VR =300V, IC =450A, di/dt =-1100A/μs: -Change Reverse Recovery Charge (Qrr) from 9.5μC Typ. To 15μC Typ.; and from 12μC Max. to 20μC Max. -Change Peak Reverse Recovery Current (Irr) from 105A Typ. to 160A Typ. -Change Reverse Recovery Time (trr) from 160ns Typ. to 180ns Typ.; and from 170ns Max. to 205ns Max. Switching Inductive Load Characteristics @ Tj = 25°C, with VCC = 300V, IC = 450A, VGE =15V, RG(on) = 20Ω, RG(off) =10Ω, L=100μH: -Fall Time (tf) from 400ns Typ. to 500ns Typ.; and from 500ns Max. to 650ns Max. -Turn-on Delay Time (td(on)) from 800ns Typ. to 500ns Typ. -Rise Time (tr) from 460ns Typ. to 280ns Typ. -Turn-on Losses (Eon) from 45mJ Typ. to 20mJ Typ. Datasheet updated with revised thermal characteristics -Change Diode Thermal Resistance, Junction to Case, per Switch (RthJC) from 0.12°C/W to 0.13°C/W Reference: IR Datasheet PD-97013		
		16. APPROVING GOVERNMENT ACTIVITY
17. GIDEP REPRESENTATIVE Paul Hebert	18. SIGNATURE 	19. DATE March 24, 2015

