

HCPL-3700 Current and Voltage Threshold Detection Optical Coupler



Overview

The HCPL-3700 voltage/current threshold detection optocoupler consists of an AlGaAs LED connected to a threshold sensing input buffer IC which are optically coupled to a high gain darlington output. The input buffer chip is capable of controlling threshold levels over a wide range of input voltages with a single resistor. The output is TTL and CMOS compatible. The HCPL-3760 is a low-current version of the HCPL-0370/3700. ©2005 Fairchild Semiconductor Corporation HCPL-3700 Rev.



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The HCPL-0370/3700 and HCPL-3760 are voltage/current threshold detection ...



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The devices utilize threshold sensing input buffer ICs which permit control of threshold levels over a wide range of input voltages with a single external resistor.



The HCPL-3700 is a voltage/current threshold detection optocoupler for use in AC-to-DC logic interface and Intelligent Power Module (IPM) applications.



This device combines an AC or DC voltage and/or current detection function with a high insulation voltage optocoupler in a single eight pin plastic dual in-line package.



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Summary of Contents for Fairchild AC/DC to Logic Interface Optocoupler HCPL-3700



The input buffer chip is capable of controlling threshold levels over a wide range of input voltages with a single resistor. The output is TTL and CMOS compatible. 1



The HCPL-3700 voltage/current threshold detection optocoupler consists of an AlGaAs LED connected to a threshold sensing input buffer IC which are optically coupled to a high gain darlington output.

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