Hall-effect Latches Tout Temperature Stability

Allegro MicroSystems, Inc. released two temperature-stable and stress-resistant Halleffect latches for operation in



consumer and

industrial products. Dynamic Offset Cancellation technology reduces the residual offset voltage normally caused by device package overmolding, temperature dependencies, and thermal stress. Both devices include, on a single silicon chip, a voltage regulator, a Hall-voltage transducer, a small-signal amplifier, chopper stabilization, a Schmitt trigger, and a short-circuit protected open-collector output to sink up to 25 mA. A south polarity magnetic field of sufficient strength is required to turn the output on. A north polarity field of sufficient strength is necessary to turn the output off. An onboard regulator permits operation with supply voltages in the range of 4.2 to 24 V with an operating temperature range from -40° to 125°C. The two devices come in a three-lead single in-line package and a SOT-23W surface mount package and target non-automotive applications. The A329xKLHLT-T is priced at \$0.44 and the A329xKUA-T is priced at \$0.46 both in quantities of 1,000.

Allegro MicroSystems 508-853-5000, <u>www.allegromicro.com</u> [1]

Source URL (retrieved on 07/28/2014 - 7:54pm):

http://www.ecnmag.com/product-releases/2008/06/hall-effect-latches-touttemperature-stability?qt-recent_content=0

Links:

[1] http://www.allegromicro.com/