

Analogue Comparator, Precision Voltage, 1 Comparator, 1.5V to 5.5V, SC-70, 5 Pins

Manufacturers	Microchip Technology, Inc
Package/Case	SC70-5
Product Type	Comparator ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC842HYC5-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC841 and MIC842 are micropower, precision voltage comparators with an on-chip voltage reference. Both devices are intended for voltage monitoring applications. External resistors are used to set the voltage monitor threshold. When the threshold is crossed, the outputs switch polarity. The MIC842 incorporates a voltage reference and comparator with fixed internal hysteresis; two external resistors are used to set the switching threshold voltage. The MIC841 provides a similar function with user adjustable hysteresis; this part requires three external resistors to set the upper and lower thresholds (the difference between the threshold voltages being the hysteresis voltage). Both the MIC841 and MIC842 are available with push-pull or open-drain output stage. The push-pull output stage is configured either active high or active low; the open-drain output stage is only configured active low. Supply current is extremely low (1.5µA, typical), making it ideal for portable applications. The MIC841/2 is supplied in Micrel's Teeny™ 5-pin SC-70, 6-pin 1.6mm × 1.6mm Thin DFN (MIC841), and 4-pin 1.2mm × 1.6mm Thin DFN (MIC842) packages.

Features

1.5V to 5.5V operating range

1.5 μ A typical supply current

10nA maximum input leakage current over temperature

10 μ s propagation delay

Externally adjustable hysteresis (MIC841)

Internal 20mV hysteresis (MIC842)

Output options

Push-pull, active high

Push-pull, active low

Open drain, active low

Open drain output can be pulled to 6V regardless of VDD

Immune to brief input transients

Teeny™ 5-pin SC-70 package

6-pin 1.6mm x 1.6mm TDFN (MIC841)

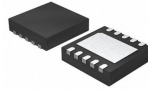
4-pin 1.2mm x 1.6mm TDFN (MIC842)

Related Products



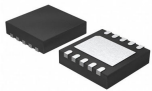
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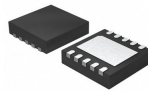
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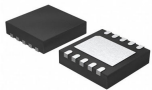
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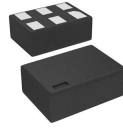
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