General Description

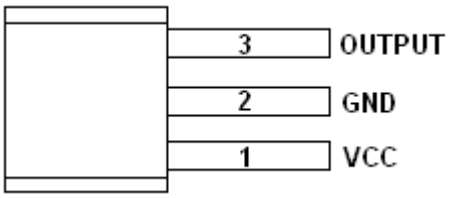
The OCH140 is an integrated Hall effect latched sensor designed for electronic commutation of brush-less DC motor applications. The device includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers the Hall voltage, and a Schmitt trigger to provide switching hysteresis for noise rejection, and open-collector output. An internal bandgap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

Features

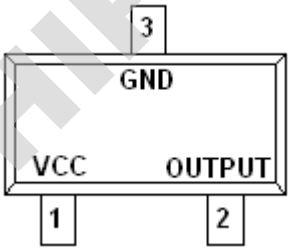
- Wide operating voltage range: 3.0V~24V
- Wide operating temperature range: -40°C ~+125°C
- Maximum output sink current 25mA
- Package: SIP3, TSOT23-3L, SOT89-3L and SOT23-3L

Pin Configuration

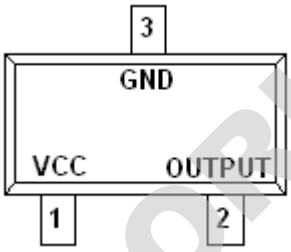
SIP-3L (Top View)



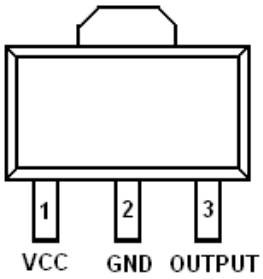
TSOT23-3L (Top View)



SOT23-3L (Top View)



SOT89-3L (Top View)



Pin Name	Pin No.				Status	Description
	SIP3	TSOT23-3L	SOT23-3L	SOT89-3L		
VCC	1	1	1	1	P	IC Power Supply
GND	2	3	3	2	P	IC Ground
OUTPUT	3	2	2	3	O	It is low state during the N magnetic field

Application Circuit

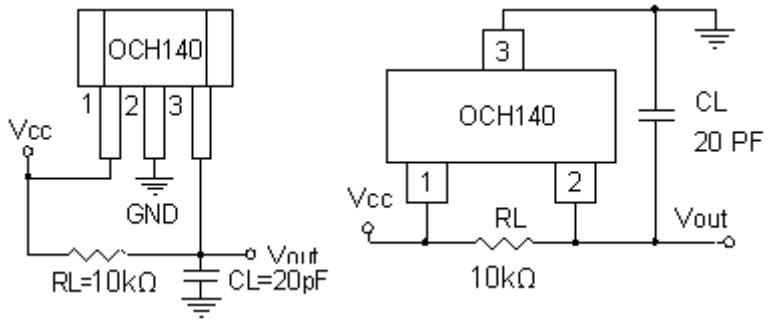
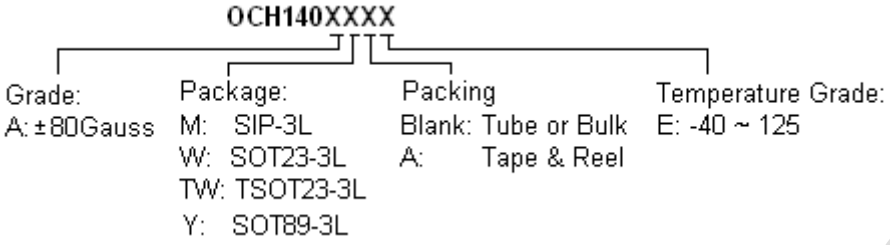


Fig 1, Typical Application Circuitry of OCH140

■ Ordering Information



Part Number	Package Type	Package Qty	Brp (Gauss)	Bop (Gauss)	Temperature	Eco Plan	Lead
OCH140AME	SIP-3L	Bulk 1000pcs/bag	-80 ~ -5	5 ~ 80	-40～125℃	ROHS	Cu
OCH140AYAE	SOT89-3L	7-in reel 1000pcs/reel	-80 ~ -5	5 ~ 80	-40～125℃	Green	Cu
OCH140AWE	SOT23-3L	7-in reel 3000pcs/reel	-80 ~ -5	5 ~ 80	-40～125℃	Green	Cu
OCH140ATWAE	TSOT23-3L	7-in reel 3000pcs/reel	-80 ~ -5	5 ~ 80	-40～125℃	Green	Cu

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