MOTOR DRIVER IC

- Contact monitor 8 × to VBAT, par. out

Contact monitor (8 channel to VBAT, parallel interface)

FEATURES

- Supply voltage range VDD 4.25V to 5.25V
- Monitor supply voltage range VS 5.25V to 25V
- Maximum overvoltage protection up to 40V
- Internal clamp diodes at each input to VS and GND •
- Low standby current (typical < 10µA)
- Contact status monitoring by comparison of the resistance at the inputs with an internal reference
- High noise immunity
- ► -40°C to +125°C operating temperature
- SO20w package

APPLICATION

- Automotive electronics
- Monitor for mechanical switches
- Monitor for voltage levels

DESCRIPTION

The IC monitors the status of all switch contact connected to VS continuously.

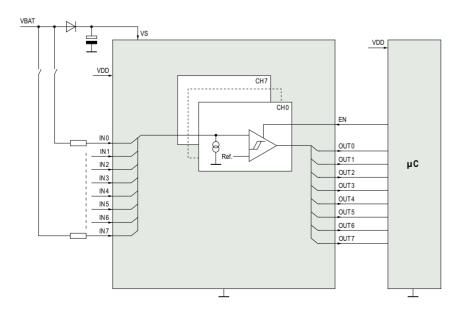
The input currents are compared with the current of an internal reference resistor. The IC is designed to operate with an external series resistor RIN0 to RIN7 of $1k\Omega$. The current, driven through the contacts keeps their resistance low.

The output switches to high when the input resistance increases to above $9k\Omega$ and switches to low when the input resistance falls below $1.5k\Omega$. These values are valid within the supply range 5.25Vto 25V.

A closed switch corresponds to a low logic level on the outputs OUT0-7.

PINNING					
	Pin	Name	Description		
	1	VS	Monitor supply voltage		
	2	INO	Input for switch / voltage sensing		
	3	IN1	Input for switch / voltage sensing		
	4	IN2	Input for switch / voltage sensing		
	5	IN3	Input for switch / voltage sensing		
	6	IN4	Input for switch / voltage sensing		
	7	IN5	Input for switch / voltage sensing		
	8	IN6	Input for switch / voltage sensing		
	9	IN7	Input for switch / voltage sensing		
	10	ENB	Chip - enable active low		
	11	GND	Ground		
	12	OUT7	TTL compatible bidirectional data port		
	13	OUT6	TTL compatible bidirectional data port		
	14	OUT5	TTL compatible bidirectional data port		
	15	OUT4	TTL compatible bidirectional data port		
	16	OUT3	TTL compatible bidirectional data port		
	17	OUT2	TTL compatible bidirectional data port		
	18	OUT1	TTL compatible bidirectional data port		
	19	OUT0	TTL compatible bidirectional data port		
	20	VDD	Logic supply voltage		

BLOCK DIAGRAM



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PACKAGE

VS		20	VDD
IN0	2	19	OUT0
IN1	<u> </u>	18	OUT1
IN2	4	17	OUT2
IN3	5	16	OUT3
IN4	6	15	OUT4
IN5	7	14	OUT5
IN6	8	13	OUT6
IN7	9	12	OUT7
ENB	10	11	GND