

传感器/MEMS

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霍尔IC

两极检测霍尔IC 检测到S极和N极时, 输出ON(低电平有效)

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
BD7411G	4.5 to 5.5	+3.4	-3.4	—	2.0 (mA)	CMOS	-40 to +85	SSOP5

两极检测(极性判别输出) 霍尔IC 具有S极和N极检测用2个输出, 能够辨别极性

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
BU52272NUZ	1.65 to 3.60	+2.4	-2.4	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	VSON04Z1114A 1.1x1.4, H=Max 0.4
BU52072GWZ	1.65 to 3.60	+2.4	-2.4	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52073GWZ	1.65 to 3.60	+4.1	-4.1	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52074GWZ	1.65 to 3.60	+6.3	-6.3	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52075GWZ	1.65 to 3.60	+9.5	-9.5	50	5.0	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
New BU52737GWZ	2.5 to 4.5	+15.0	+15.0	50	0.8	CMOS	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52077GWZ	1.65 to 3.60	+15.0	-15.0	50	5.0	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52078GWZ	1.65 to 3.60	+24.0	-24.0	50	5.0	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4

车载用 单极检测霍尔IC

Part No.	Supply Voltage (V)	Operate Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
New BD53103G-CZ	2.7 to 38	3.5	—	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD53104G-CZ	2.7 to 38	7.5	—	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD53105G-CZ	2.7 to 38	10.0	—	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD53106G-CZ	2.7 to 38	12.5	—	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD53107G-CZ	2.7 to 38	18.0	—	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD53108G-CZ	2.7 to 38	28.0	—	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12

车载用 交变检测霍尔IC

Part No.	Supply Voltage (V)	Operate/Release Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (μA)	Output	Operating Temperature (°C)	Package (mm)
		Bop	Brp					
New BD54102G-CZ	2.7 to 38	2.0	-2.0	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD54103G-CZ	2.7 to 38	5.0	-5.0	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD54104G-CZ	2.7 to 38	7.5	-7.5	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD54105G-CZ	2.7 to 38	10.0	-10.0	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12
New BD54107G-CZ	2.7 to 38	15.0	-15.0	10k	1.3	Nch Open Drain	-40 to +150	SSOP3A 2.92x2.4, H=Max 1.12

地磁传感器IC

三轴数字地磁传感器IC							
Part No.	Supply Voltage (V)	Magnetic Measurement (μ T)	Magnetic Sensitivity (μ T/LSB)	Current Consumption (μ A)	I/F	Operating Temperature ($^{\circ}$ C)	Package (mm)
BM1422AGMV	1.7 to 3.6	\pm 1,200	0.042	150	I ² C	-40 to +85	MLGA010V020A 2.0x2.0, H=Max 1.0

电流传感器IC

非接触式电流传感器IC							
Part No.	Supply Voltage (V)	Magnetic Measurement (μ T)	Magnetic Sensitivity (μ T/LSB)	Current Consumption (μ A)	I/F	Operating Temperature ($^{\circ}$ C)	Package (mm)
BM14270AMUV-LB	2.7 to 5.5	\pm 280	0.045	70	I ² C	-40 to +125	VQFN20QV3535 3.5x3.5, H=Max 1.0

电流检测放大器IC								
Part No.	Ch	Supply Voltage (V)	Quiescent Current (μ A)	Common Mode Voltage (V)	Gain (V/V)	Gain Accuracy (%)	Operating Temperature ($^{\circ}$ C)	Package (mm)
New BD14210G-LA	1	2.7 to 5.5	170	-0.2 to +26	20	\pm 1 (Max)	-40 to +125	SSOP6 2.9x2.8, H=Max 1.25
☆BD14215FVJ-LA	2	2.7 to 5.5	310	-0.2 to +26	20	\pm 1 (Max)	-40 to +125	TSSOP-B8J 3.0x4.9, H=Max 1.10

☆: 开发中

照度传感器IC

电流输出型模拟照度传感器IC								
Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (μ A/lx)	IR Cut	I/F	Operating Temperature ($^{\circ}$ C)	Package
BH1603FVC	2.4 to 5.5	\pm 15	0 to 100,000	0.6	-	Linear Current Output (Source)	-40 to +85	WSOF6
BH1620FVC	2.4 to 5.5	\pm 15	0 to 100,000	0.6	-	Linear Current Output (Source)	-40 to +85	WSOF5
BH1680FVC	2.4 to 5.5	\pm 15	0 to 50,000	6	✓	Linear Current Output (Source)	-40 to +85	WSOF5
BH1682FVC	2.3 to 5.5	\pm 3 μ A	1 to 55,000	-	✓	Logarithmic Current Output (Source)	-40 to +85	WSOF5

16bit串行输出型数字照度传感器IC								
Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (at 100ms) (μ A/lx)	IR Cut	I/F	Operating Temperature ($^{\circ}$ C)	Package
BH1721FVC	2.4 to 3.6	\pm 15	0 to 65,000	1	-	I ² C	-40 to +85	WSOF5
BH1730FVC	2.4 to 3.6	\pm 15	0 to 65,000	0.007	-	I ² C	-40 to +85	WSOF6
New BU27034NUC	1.7 to 2.0	\pm 15	0 to 20,000	0.000016	✓	I ² C	-40 to +85	WSO008X2120

颜色传感器IC

16bit串行输出型数字颜色传感器IC												
Part No.	Supply Voltage (V)	λ_p (nm)				Illuminance Measurement (lx)	High Sensitivity	IR Cut	Flicker detection	I/F	Operating Temperature ($^{\circ}$ C)	Package (mm)
		Red	Green	Blue	IR							
BH1749NUC	2.3 to 3.6	630	540	460	825	0 to 80,000	✓	✓	-	I ² C	-40 to +85	WSO008X2120 2.1x2.0, H=Max 0.6
BU27006MUC-Z	1.7 to 3.6	630	540	460	825	0 to 50,000	✓	✓	✓	I ² C	-40 to +85	WQFN12X2520A 2.5x2.0, H=Max 0.55

光学式脉搏传感器IC

光学式脉搏传感器IC							
Part No.	Analog Supply Voltage (V)	IO Supply Voltage (V)	Sampling Frequency (Hz)	Red Light, IR Cut	I/F	Operating Temperature ($^{\circ}$ C)	Package (mm)
BH1790GLC	2.5 to 3.6	1.7 to 3.6	32/64	✓	I ² C	-20 to +85	WLGA010V28 2.8x2.8, H=Max 1.0
BH1792GLC	2.5 to 3.6	1.7 to 3.6	32/64/128/256/1,024	✓	I ² C	-20 to +85	WLGA010V28 2.8x2.8, H=Max 1.0

气压传感器IC

内置温度补偿功能数字气压传感器IC

Part No.	Supply Voltage (V)	Pressure Range (hPa)	Relative Pressure Accuracy (hPa)	Absolute Pressure Accuracy (hPa)	I/F	Operating Temperature (°C)	Waterproof	Package (mm)
BM1390GLV-Z	1.7 to 3.6	300 to 1,300	±0.06	±1	I ² C	-40 to +85	✓	RLGA10VG020T 2.0x2.0, H=Max 1.0

温度传感器IC

模拟输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (°C)		Temperature Sensitivity (mV/°C)	Output Voltage (V) (T _s =+30°C, V _{DD} =3V)	Supply Current (µA)	Operating Temperature (°C)	Package
		T _s =+30°C	T _s =-30, +100°C					
BD1020HFV	2.4 to 5.5	±1.5	±2.5	-8.2	1.3	4.0	-30 to +100	HVSOF5

数字输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (°C) T _s =-20 to +85°C	Current Consumption (µA)	I/F	Operating Temperature (°C)	Package
BH1900NUX	2.7 to 3.6	±3	75	I ² C	-30 to +95	VSON008X2030

震动传感器用放大器

震动传感器用放大器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Notch Frequency (kHz)	Notch Attenuation Rate (dB)	Operating Temperature (°C)	Package
BD3852MUZ-Z	1.6 to 2.3	1.6 to 4.5	31.0	-23.0	-40 to +85	VQFN16Z3030A

加速度传感器

(Kionix产品)

3轴加速度传感器

Part No.	G range (±g)	Mechanical Signal Bandwidth (Hz)	Current Consumption* (µA)	I/F	Size, No. of Pins, Package	Features
KXTJ3-1057	2, 4, 8, 16	800	1.5 to 155	I ² C	2x2x0.9mm, 12pin, LGA	Wake-Up Function
KX132-1211	2, 4, 8, 16	4200 (XY) 2900 (Z)	0.53 to 148	I ² C/SPI	2x2x0.9mm, 12pin, LGA	Wake-Up and Back-To-Sleep Function, 512Byte Buffer, Wide Output Data Rate (0.781Hz to 25.6kHz)
KX134-1211	8, 16, 32, 64	8200 (X) 8500 (Y) 5600 (Z)	0.53 to 148	I ² C/SPI	2x2x0.9mm, 12pin, LGA	Wake-Up and Back-To-Sleep Function, 512Byte Buffer, Wide Output Data Rate (0.781Hz to 25.6kHz), Wide Mechanical Signal Bandwidth

*消耗电流可通过设定调整