



传感器/MEMS

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霍尔IC

两极检测霍尔IC 检测出S极和N极时,输出ON(低电平有效)。

Part No.	Supply Voltage (V)	Operate Point(mT)		Period (ms)	Current Consumption (Avg.)(μ A)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
BU52092GWZ	1.65 to 3.6	+ 2.4	- 2.4	50	4.4	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52055GWZ	1.65 to 3.6	+ 4.1	- 4.1	50	5	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52054GWZ	1.65 to 3.6	+ 6.3	- 6.3	50	5	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52095GWZ	1.65 to 3.6	+ 9.5	- 9.5	50	4.4	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52097GWZ	1.65 to 3.6	+ 15.0	- 15.0	50	4.4	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52098GWZ	1.65 to 3.6	+ 24.0	- 24.0	50	4.4	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
New BU52792GWZ	2.7 to 5.5	+ 2.4	- 2.4	50	3.2	CMOS	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
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, 能够判别极性。

BU52272NUZ	1.65 to 3.6	+ 2.4	- 2.4	50	4.4	CMOS (2 Outputs : S, N pole)	- 40 to + 85	VSON04Z1114A (1.1 × 1.4)H=0.4 Max.
New BU52072GWZ	1.65 to 3.6	+ 2.4	- 2.4	50	4.4	CMOS (2 Outputs : S, N pole)	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52273NUZ	1.65 to 3.6	+ 4.1	- 4.1	50	4.4	CMOS (2 Outputs : S, N pole)	- 40 to + 85	VSON04Z1114A (1.1 × 1.4)H=0.4 Max.
New BU52073GWZ	1.65 to 3.6	+ 4.1	- 4.1	50	4.4	CMOS (2 Outputs : S, N pole)	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52274NUZ	1.65 to 3.6	+ 6.3	- 6.3	50	4.4	CMOS (2 Outputs : S, N pole)	- 40 to + 85	VSON04Z1114A (1.1 × 1.4)H=0.4 Max.
New BU52074GWZ	1.65 to 3.6	+ 6.3	- 6.3	50	4.4	CMOS (2 Outputs : S, N pole)	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52075GWZ	1.65 to 3.6	+ 9.5	- 9.5	50	5	CMOS (2 Outputs : S, N pole)	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52077GWZ	1.65 to 3.6	+ 15.0	- 15.0	50	5	CMOS (2 Outputs : S, N pole)	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.
BU52177GXZ	1.65 to 3.6	+ 15.0	- 15.0	50	5	CMOS (2 Outputs : S, N pole)	- 40 to + 85	XCSP30L1 (0.65 × 0.65)H=0.33 Max.
BU52078GWZ	1.65 to 3.6	+ 24.0	- 24.0	50	5	CMOS (2 Outputs : S, N pole)	- 40 to + 85	UCSP35L1 (0.8 × 0.8)H=0.4 Max.

交变磁场检测霍尔IC 检测电极转换(N极→S极: 输出为高→低 S极→N极: 输出为低→高)

BU52040HFV	1.65 to 3.3	+ 3.0	- 3.0	0.5	200	CMOS	- 40 to + 85	HVSOF5
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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 (%)	Illuminance Measurement Range (lx)	High Sensitivity	IR Cut	I/F	Operating Temperature (°C)	Package
BH1603FVC	2.4 to 5.5	± 15	0 to 100,000	-	-	Linear Current Output (Source)	- 40 to + 85	WSOF6
BH1620FVC	2.4 to 5.5	± 15	0 to 100,000	-	-	Linear Current Output (Source)	- 40 to + 85	WSOF5
BH1680FVC	2.4 to 5.5	± 15	0 to 50,000	✓	✓	Linear Current Output (Source)	- 40 to + 85	WSOF5
BH1682FVC	2.3 to 5.5	± 3 μ A	0 to 55,000	-	✓	Logarithmic Current Output (Source)	- 40 to + 80	WSOF5

16bit串行输出型数字照度传感器IC

BH1721FVC	2.4 to 3.6	± 15	0 to 65,000	-	-	I ² C	- 40 to + 85	WSOF5
BH1730FVC	2.4 to 3.6	± 15	0 to 65,000 (1/128 lx step)	✓	-	I ² C	- 40 to + 85	WSOF6
BH1726NUC	2.3 to 3.6	± 15	0 to 30,000 (1/512 lx step)	✓	✓	I ² C	- 40 to + 85	WSON008X2120

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 Range (lx)	High Sensitivity	IR Cut	I/F	Operating Temperature (°C)	Package
		Red	Green	Blue	Clear						
BH1745NUC	2.3 to 3.6	620	540	460	585	0 to 40,000	✓	✓	I ² C	- 40 to + 85	WSON008X2120

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 Rate (Hz)	Red Light, IR Cut	I/F	Operating Temperature (°C)	Package (mm)
BH1790GLC	2.5 to 3.6	1.7 to 3.6	32/64	✓	I ² C	- 20 to + 85	WLGA010V28 (2.8 × 2.8)H=1.0 Max.
New BH1792GLC	2.5 to 3.6	1.7 to 3.6	32/64/128/256/1024	✓	I ² C	- 20 to + 85	WLGA010V28 (2.8 × 2.8)H=1.0 Max.

气压传感器IC

内置温度补偿功能数字气压传感器

Part No.	Supply Voltage (V)	Pressure Range (hPa)	Relative Pressure Accuracy (hPa)	Absolute Pressure Accuracy (hPa)	Average Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
New BM1386GLV	1.7 to 3.6	300 to 1,300	±0.12	±1	3.0	I ² C	-40 to +85	CLGA10V020A (2.0×2.0)H=1.0 Max.

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) (Ta=+30°C, VDD=3V)	Supply Current (μA)	Operating Temperature (°C)	Package
		Ta=+30°C	Ta=-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) Ta=-20 to +85°C	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package
BH1900NUX	2.7 to 3.6	±3.0	75.0	I ² C	-30 to +95	VSON008X2030

低消耗电流温控输出(温度开关)温度传感器IC

Part No.	Supply Voltage (V)	Detect Temperature (°C)	Detect Temperature Accuracy (°C)	Current Consumption (Operation/Power down) (μA)	Output Type		Operating Temperature (°C)	Package
					Type	Active		
BDJxxx0HFV Series	2.4 to 5.5	60/70/80	±2.5	7.5/0.3	Open Drain	L	-30 to +100	HVSOF5

低消耗电流温控输出(温度开关)温度传感器IC: BDJxxx0HFV品名为检测温度(°C): 055, 060, 065, 070, 080。

人体感应传感器用IC

热释电红外传感器用放大器

Part No.	Supply Voltage (V)	DRAIN Voltage (V)	AMP1/AMP2 Gain (dB)	Output Type	Package
BD9251FV	2.97 to 6	2.3	46 Max.	Analog/CMOS	SSOP-B14

开关控制器IC

电容式开关控制器IC

Part No.	Supply Voltage (V)	Cap Switch (ch)	LED_Driver (ch)	LED_PWM Control	Matrix Control	I/F	MCU (bit)	Program Memory	Intermittent Motion	Package
BU21170MUV	3.0 to 5.5	5	5	✓	-	I ² C	32	ROM	-	VQFN020V4040
BU21079F	3.0 to 5.5	8	-	-	4×4	I ² C	32	ROM	✓	SOP16
BU21077MUV	2.7 to 5.5	8	-	-	Adjustable	I ² C	32	RAM	✓	VQFN020V4040
BU21072MUV	3.0 to 5.5	10	6	✓	4×4	I ² C	32	ROM	-	VQFN024V4040
BU21078MUV	3.0 to 5.5	12	8	✓	6×6	I ² C	32	ROM	-	VQFN028V5050
BU21078FV	3.0 to 5.5	12	8	✓	6×6	I ² C	32	ROM	-	SSOP-B28
New BU21180FS	3.0 to 5.5	20	-	-	-	I ² C	32	ROM	-	SSOP-A32

触摸屏控制器IC

电阻式

Part No.	Supply Voltage (V)	MCU (bit)	Resolution	Touch Detection	Stand-by Current (μA)	Active Current (mA)	Host I/F	Operating Temperature (°C)	Package (mm)	Automotive Grade AEC-Q100
BU21029MUV	1.65 to 3.6	-	4096×4096	2 point/Single	100	0.8	I ² C	-20 to +85	VQFN020V4040	-
BU21029GUL	1.65 to 3.6	-	4096×4096	2 point/Single	100	0.8	I ² C	-20 to +85	VCSP50L2 (2.0×2.0, t=0.55)	-
BU21028FV-M	2.7 to 3.6	-	4096×4096	2 point/Single	100	0.8	I ² C	-40 to +85	SSOP-B20	YES
BU21023MUV	2.7 to 3.6	8	1024×1024	2 point/Single	60	4	I ² C/SPI	-20 to +85	VQFN028V5050	-
BU21023GUL	2.7 to 3.6	8	1024×1024	2 point/Single	60	4	I ² C/SPI	-20 to +85	VCSP50L2 (2.6×2.6, t=0.55)	-
BU21024FV-M	2.7 to 3.6	8	1024×1024	2 point/Single	60	4	I ² C/SPI	-40 to +85	SSOP-B28	YES
New BU21027MUV	2.7 to 3.6	32	4096×4096	2 point/Single	70	8	I ² C	-20 to +85	VQFN020V4040	-
BU21025GUL	1.65 to 3.6	-	4096×4096	Single	0.8	0.12	I ² C	-30 to +85	VCSP50L2 (2.0×1.5, t=0.55)	-
BU21026MUV	1.65 to 3.6	-	4096×4096	Single	0.8	0.12	I ² C	-30 to +85	VQFN020V4040	-

支持SPI/I²C 触摸屏I/F LSI

(LAPIS Semiconductor产品)

Part No.	Supply Voltage (V)	MCU	Resolution	Touch Detection	Stand-by Current (μA)	Active Current (mA)	Host I/F	Operating Temperature (°C)	Package (mm)	Automotive Grade
ML26700CGD	2.7 to 3.6	-	4096×4096	Single	30	0.42	I ² C	-40 to +85	WQFN12 3.0×3.0, t=0.55	YES
ML26700SGD	2.7 to 3.6	-	4096×4096	Single	30	0.56	SPI	-40 to +85	WQFN12 3.0×3.0, t=0.55	YES

加速度传感器

(Kionix产品)

3轴加速度传感器							
Part No.	Axis	Full-Scale Range	I/F Output	Current Consumption (μA)	Size,Pins,and Package Type	Features	Automotive Grade AEC-Q100
KX122-1037	3	User-selectable 2g,4g,8g	Digital SPI/I ² C	0.9 to 145	2 × 2 × 0.9mm, 12pin,LGA	2KB FIFO/FILO, Wide range of ODRs from 0.781Hz to 25.6kHz, Directional Tap/Double-Tap, Free fall, Orientation Detection	-
New KX124-1051	3	User-selectable 2g,4g,8g	Digital SPI/I ² C	0.9 to 145	3 × 3 × 0.9mm, 16pin,LGA	2KB FIFO/FILO, Wide range of ODRs from 0.781Hz to 25.6kHz, Directional Tap/Double-Tap, Free fall, Orientation Detection	-
New KX126-1063	3	User-selectable 2g,4g,8g	Digital SPI/I ² C	0.9 to 145	2 × 2 × 0.9mm, 12pin,LGA	Pedometer function, 2KB FIFO/FILO, Wide range of ODRs from 0.781Hz to 25.6kHz, Directional Tap/Double-Tap, Free fall, Orientation Detection	-
New KXCJB-1041	3	User-selectable 2g,4g,8g	Digital I ² C	10 to 135	3 × 3 × 0.45mm, 10pin,LGA	Low Current Consumption, User-configurable wakeup function, Ultra thin type	-
New KX112-1042	3	User-selectable 2g,4g,8g	Digital SPI/I ² C	0.9 to 145	2 × 2 × 0.6mm, 12pin,LGA	2KB FIFO/FILO, Wide range of ODRs from 0.781Hz to 25.6kHz, Directional Tap/Double-Tap, Free fall, User-configurable wakeup function, Thin type	-
New KXTJ3-1057	3	User-selectable 2g,4g,8g,16g	Digital I ² C	0.9 to 155	2 × 2 × 0.9mm, 12pin,LGA	User-configurable wakeup function	-
New KX224-1053	3	User-selectable 8g,16g,32g	Digital SPI/I ² C	0.9 to 145	3 × 3 × 0.9mm, 16pin,LGA	2KB FIFO/FILO,Wide range of ODRs from 0.781Hz to 25.6kHz, Mechanical resonance frequency(-3dB)6kHz(xy), 3.6kHz(z)	-
New KX222-1054	3	User-selectable 8g,16g,32g	Digital SPI/I ² C	0.9 to 145	2 × 2 × 0.9mm, 12pin,LGA	2KB FIFO/FILO,Wide range of ODRs from 0.781Hz to 25.6kHz, Mechanical resonance frequency(-3dB)6kHz(xy), 3.6kHz(z)	-
KXTC9 series	3	2g to 6g	Analog	170 to 310	3 × 3 × 0.9mm, 10pin,LGA	Factory Programmable Internal Low Pass Filter	-
☆KX220 series	3	up to 40g	Analog	170 to 310	3 × 3 × 0.9mm, 10pin,LGA	Factory Programmable Internal Low Pass Filter	-
☆KX123-6000	3	User-selectable 2g,4g,8g	Digital SPI/I ² C	10 to 145	3 × 3 × 0.9mm, 16pin,LGA	AEC-Q100 qualified, Operating Temperature - 40 to +85°C, 2KB FIFO/FILO, Wide range of ODRs from 0.781Hz to 25.6kHz, Directional Tap/Double-Tap, Free fall, Orientation Detection	YES*

* 非安全车载用途产品
Directional Tap/Double-Tap是Kionix公司的商标。

☆ : 开发中

6轴组合传感器

(Kionix产品)

3轴加速度传感器+3轴陀螺仪传感器										
Part No.	Axis	Gyroscope Full-Scale Range	Accelerometer Full-Scale Range	Accelerometer Sensitivity	Resolution	Size, No. of Pins, Package	I/F Output	Wakeup	Operating Temperature (°C)	V _{cc} (V)
☆KXG07	6	± 2048, ± 1024, ± 512, ± 256, ± 128, ± 64°/Sec	2g,4g,8g,16g	16384(± 2g),8192(± 4g), 4096(± 8g),2048(± 16g), Counts/g	16	3 × 3 × 0.9mm, 16pin,LGA	Digital I ² C/SPI	Yes	- 40 to +85	1.8 to 3.6
☆KXG08	6	± 2048, ± 1024, ± 512, ± 256, ± 128, ± 64°/Sec	2g,4g,8g,16g	16384(± 2g),8192(± 4g), 4096(± 8g),2048(± 16g), Counts/g	16	2.5 × 3 × 0.95mm, 14pin,LGA	Digital I ² C/SPI	Yes	- 40 to +85	1.8 to 3.6

3轴加速度传感器+3轴地磁传感器								
Part No.	Axis	Accelerometer Full-Scale Range	I/F Output	Current (μA)	Magnetometer Range	Operating Temperature (°C)	Size, Pins, and Package Type	Features
New KMX62-1031	6	User-selectable 2g,4g,8g,16g	Digital I ² C	10 to 395	± 1,200μT	- 40 to +85	3 × 3 × 0.9mm, 16pin,LGA	E-compass Solution, Magnetic field change, Free fall

☆ : 开发中

红外线图像传感器

(LAPIS Semiconductor产品)

红外线(IR)传感器										
Part No.	Feature	Pixel	Measurement Range (°C)	Temperature Resolution (without Lens) (°C)	Output Type	Read Speed	Supply Voltage (V)	Operating Temperature (°C)	Package	Halogen Free Support
ML8540	2000 pixels thermopile type Thermal image sensor	47row × 48column 2256 pixels	- 30 to + 300(Variable)	0.5	Analog	6FPS	4.5 to 5.5	- 30 to +85	C-QFN24	✓

带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。