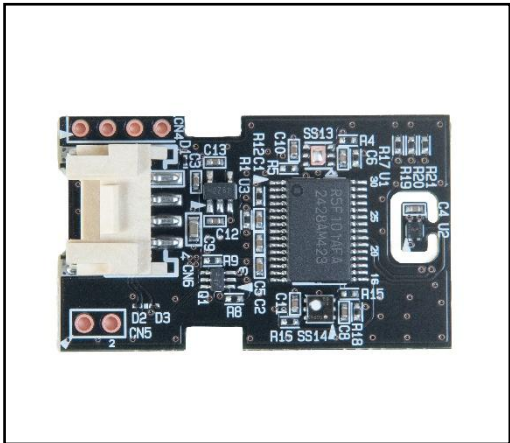


GAS SENSOR (Mems Type)



■ FEATURE

- Measure the decrease in resistance as the Gas concentration increases.
- Detected Gas Type : TVOC/HCHO or NO2
- Applicable to various structures
- Low power consumption 2.5mA
- Internal Heating Function

■ APPLICATIONS

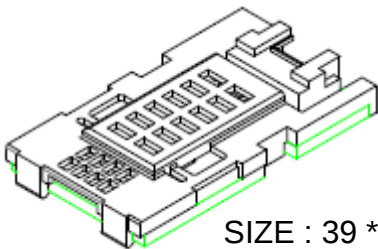
Air conditioners, residential ventilation equipment, air purifiers, etc.

■ ELECTRICAL DATA

Characteristics	Sym	Min	Typ	Max	Units
Operating supply voltage	VDD	1.7	3.3	3.6	V
Idle current	IDD	-	34	105	μA
Supply current at standard operation mode		-	7.6	8.4	mA
		-	4.8	5.5	mA
Communication	-	Digital 2-wire interface. I ² C			

Parameter	rating
Supply voltage VDD / VDDH	-0.3 to +3.6V
Short-term storage temperature range	-40 to +70°C
Operating temperature range	-20 to +55°C
Short-term storage humidity range	0 to 80 % (non-condensing)
Operating humidity range	0 to 90 % (non-condensing)
ESD HBM	2kV
ESD CDM	500V
Latch up, JESD78 Class II, 125°C	100 Ma

■ DIMENSION [unit:mm]



SIZE : 39 * 22 * 5



■ Module Spec.

NO	Parameter		Specification	
1	Supply voltage		DC5V	
			Max : 5.5V	
			Min : 4.5V	
2	Gas Output (Ethanol 2ppm)	Signal	SS14(G1)	SS13(G2)
		Pixel 1	0.67~0.82	0.65~0.75
		Pixel 2	0.47~0.78	0.73~1.03
		Pixel 3	0.58~0.76	
		Pixel 4	0.51~0.73	
3	Operating conditions Gas(in clean air)	Ethanol	0 ~ 1'000'000 ppb	
		NO2	0 ~ 10'000 ppb	
4	Operating conditions humidity		0 ~ 90 %RH	
5	Operating conditions temperature		-20 ~ 55 °C	
6	Storage conditions Gas(in clean air)	Ethanol	300 ~ 10'000 ppb	
		NO2	50 ~ 650 ppb	
7	Storage conditions humidity		0 ~ 100 %RH	
8	Storage conditions temperature		-40 ~ 70 °C	

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