

SIC433-02 DAYLIGHT SENSOR IC

SIC433-02 which peak sensitivity is designed at structure λ p=520nm,is photo-IC daylight sensor with optical filterless . It has both low drive voltage and output in proportion to illumination, and it has not sensitivityin a long wavelength domain.

Features

- · Zero sensitivity in a long wavelength domain
- Optical filterless
- A small current ratio between light sources
- Low voltage drive(1.8V~6.0V)
- Analog current output in proportion to illumination

Application

· Air conditioner

Dimensions (Unit:mm) 3.75±0.2 2.95±0.2 3.75±0.2 2.0.6 2-0.5±0.05 2.54±0.05 1. Vec ②: Vout

MAXIMUM RATINGS

(Ta= 25°C)

Item	Symbol	Rating	Unit
Supply voltage	Vcc	$-0.5 \sim +7.0$	V
Operating temp. * 1	Topr.	<i>-</i> 20∼+85	$^{\circ}$
Storage Temp.	Tstg.	- 30∼+100	$^{\circ}$ C
Soldering temp.	Tsol.	260	$^{\circ}$

Note: *1. Vcc=5V, RL=100 Ω

RECOMMENDED ITEMS

(Ta= 25°C)

Item	Symbol	Rating	Unit
Supply voltage	Vcc	$+1.8 \sim +6.0$	V

ELECTRO- OPTICAL CHARACTERISTICS

(Vcc=5V,Ta= 25°C)

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Dark current	ld	Ev=0Lx	-	-	300	nA
Output current	lL	Ev=100 lx * 2	150	220	260	μΑ
Output current	lL	Ev=1.5 lx * 2	2.5	3.7	5.5	μΑ
Comparison	I_{LA}/I_{LB}	Ev=100 lx * 3	0.8	1.0	1.5 * 4	-
Spectral sensitivity	λ	-	400~750			nm
Peak wavelength	λр	-	-	520	-	nm
Half angle	Δθ	-	-	±65	-	deg.

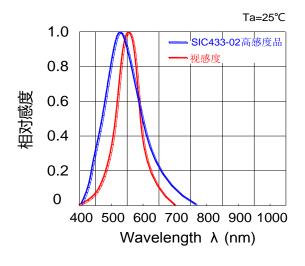
Note: *2. A light(Color temp. = 2856K LED)

^{*3.}I_{I A} / I_{I B} = A light output / B light output(A light=Coler tmep=2856K, B light=Coler tmep=4870K)

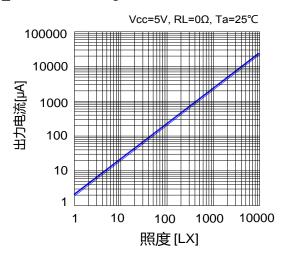
^{*4.} Maximum value to light coming from +/-90 degree against the detecting from

SIC433-02

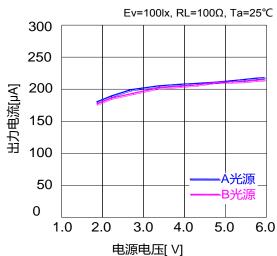
■ 分光感度特性 Spectral Sensitivity



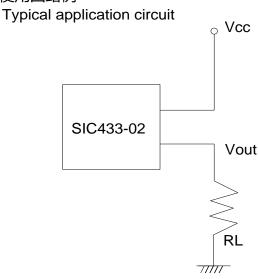
光电流特性 Light Current



■ 光电流特性 Light Current Light Current against supply voltage



使用回路例

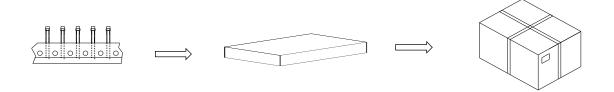


DAYLIGHT SENSOR IC

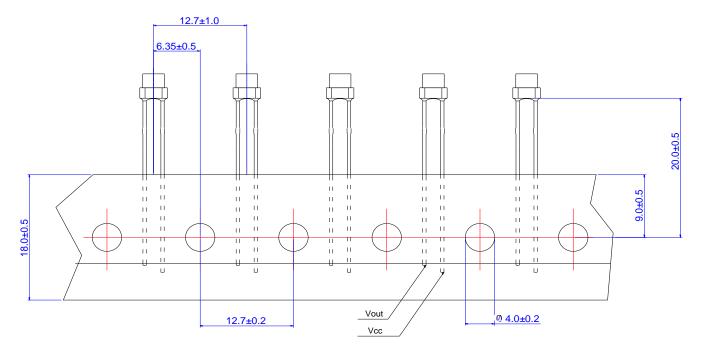
SIC433-02

Taping Packing Specification

- 1.Fixed quantity (3000pcs) of the products are packed into Inner box
- 2. Ten Inner boxes are put into #3 box(max 30,000pcs)
- 3. Packing slit is pasted on the out box



制品编带图面



单位: mm