# SiC-based UV photodiode　　Model：SSL-ABC-3535LQC

## General Features:

- UVA+UVB+UVC
- MD 3535
- G
- H

**Applications:**

## Specifications:

| Parameters | Symbol | Value | |
|---|---|---|---|
| **Maximum ratings** | | | |
| O | T | -25-100 | C |
| S | T | -40-110 | C |
| S (3 ) | T | 260 | C |
| R | | | |

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## Application circuit:
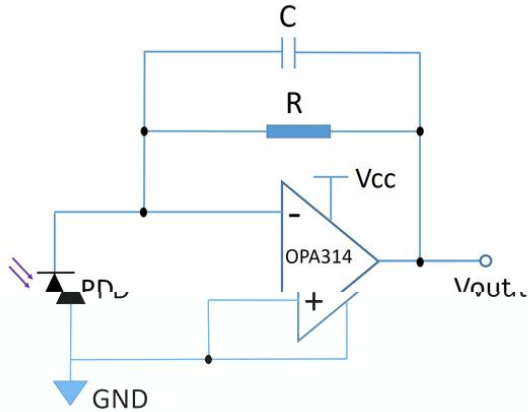


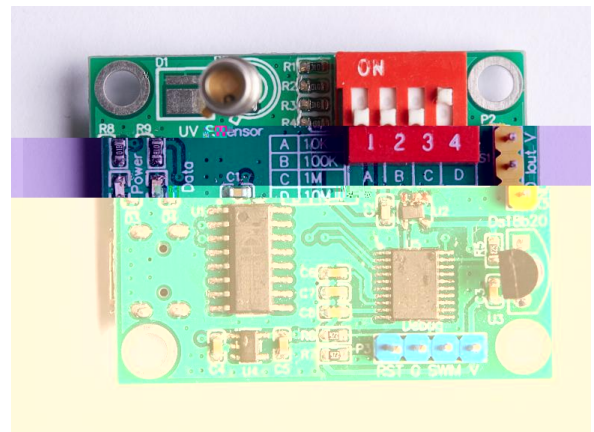$$V_{out}(V) = I_{ph}(A) \times R(\Omega)$$

$$I_{ph}(A) = R_\lambda(A/W) \times A(cm^2) \times P(W/cm^2)$$

where A is chip area, P is incident UV power density and $R_\lambda$ is responsivity at specific wavelength.

## Evaluation circuit board:



A   a         c   a   a         b  a
a                      a   ca
ca    b       a a               . T
a  a      b  a                a         c  a
b    SMD- a    TO-      ac  a      UV
b  GaN  O  . U    c
c                              UV
a  a    ,        b
b       a      a       .

T    a  a    b  a              a         a   a                c    a  a            c .
D                    c  c                     a       a  c  a  ,    c
a    ca       a                  a    c       c  c . A       a              b  a
b            a    c    a   .

T  UV             a  a    b  a    a  b  a  a    a       a             ac . A  a
ac           a       a  a  a   c      UV      a            ,          a     ac
a  c      ca      PC       c   a       . A  bac         c  -USB
a     ac    PC     USB  cab  c    c   . U    c           a  c       ca
a  PC   c     c  a         a         a  a   b  a  .

F              a  a   b  a ,   a     ://   . a -   .c   ,         a   ca
b  a ,         a  a   a     a   ab  GaN  O   UV              ca
b       .

N  :T   b  a                a            .