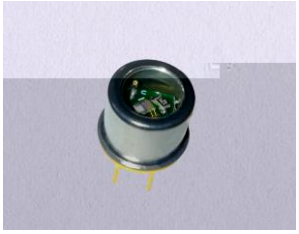
SiC-based UV photodiode Model STV-ABC-M

General Features:



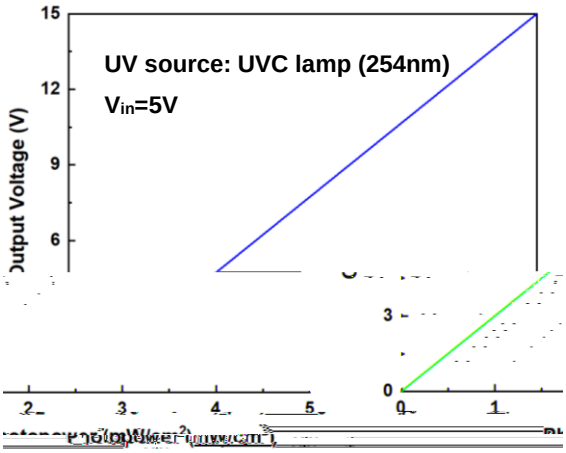
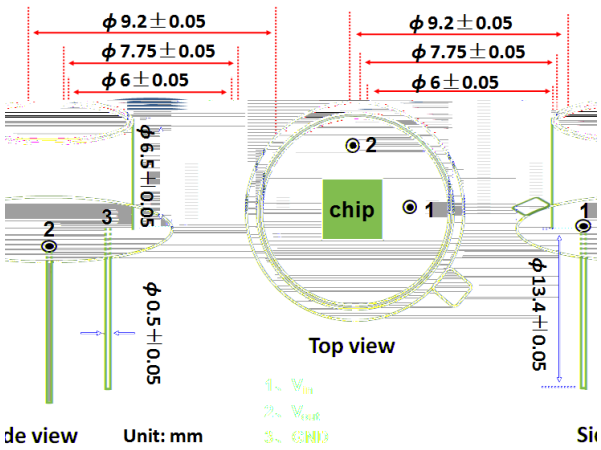
- Single voltage supply operation
- Direct voltage output
- TO-39 metal housing with sapphire window
- High sensitivity and good linearity
- Integrated solution in a single package

Applications: UV-C monitoring, UV radiation dose measurement, flame detection

Specifications:

Parameters	Symbol	Value	Unit
Maximum ratings			
Operation temperature range	T_{opt}	-25-85	^oC
Storage temperature range	T_{sto}	-40-85	^oC
Soldering temperature (3 s)	T_{sol}	260	^oC
Supply voltage	V_{in}	5	V
General characteristics (25 ^oC)			
Chip size	A	0.24	mm^2
Temperature coefficient	T_c	-0.02	%/ ^oC
Spectral response characteristics (25 ^oC)			
Responsivity (at 254nm)	R	0.1	mV/nW
Output Voltage	V_{out}	0-5	V
Offset Voltage	V_{off}	0.02	V
Detection Power Range	P	0-15	mW/cm^2
Rising Time	T_r	2	mS

Output Voltage vs UV power



Package dimension