

Features

Gallium nitride based material
 Broad band UVA+UVB photodiode
 Photovoltaic mode operation
 SMD2835 package
 Good visible blindness
 High responsivity and low dark current



Applications

UV index monitoring
 UV radiation dose measurement
 Flame detection

Specifications

Parameter	Symbol	Value	Unit
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Spectral characteristics (25 °C)

Wavelength of peak responsivity	λ_{max}	360	nm
Peak responsivity (at 360 nm)	R_{max}	0.18	A/W
Spectral response range	-	280~370	nm
UV/visible rejection ratio ($R_{max}/R_{400\text{ nm}}$)	VB	$>10^4$	-

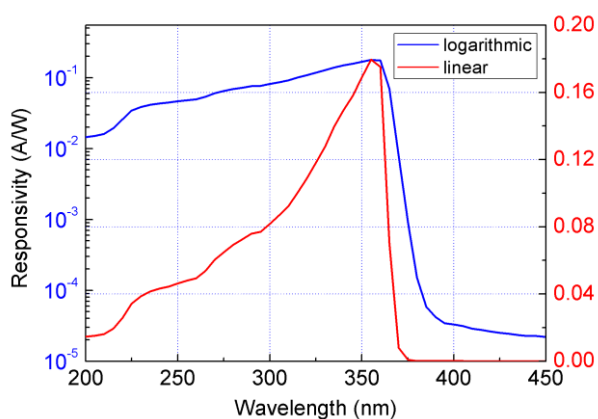
General characteristics (25 °C)

Chip size	A	0.2	mm ²
Dark current (1 V reverse bias)	I_d	<1	pA
Capacitance (at 0 V and 1 MHz)	C	4.6	pF
Temperature coefficient	T_c	-0.1	%/°C

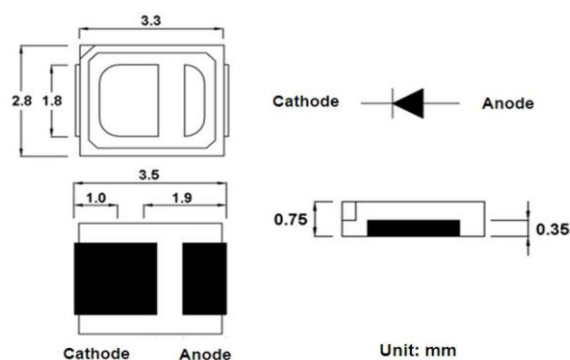
Maximum ratings

Operation temperature range	T_{opt}	-28~85	°C
Storage temperature range	T_{stor}	-40~85	°C
Soldering temperature (3 s)	T_{sold}	260	°C
Reverse voltage	V_{Rmax}	10	V

Spectral response



Package dimensions



*Caution: ESD can damage the device hence please avoid ESD.