



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Radiation	Type	Technology	Case
VUV - visible	Schottky contact	GaP	TO-39

Description:	
	<p>Wide bandwidth and high sensitivity from VUV up to the visible spectrum (150 nm - 550 nm), mounted in hermetically sealed TO-39 package with sapphire window</p>
Application:	
<p>Medical engineering (dermatology), output check of UV - lamps and oil or gas burner flame, measurement and control of ecological parameters, radiation control for a solarium, UV water purification facilities</p>	

Absolute Maximum Ratings (Ta = 25°C)

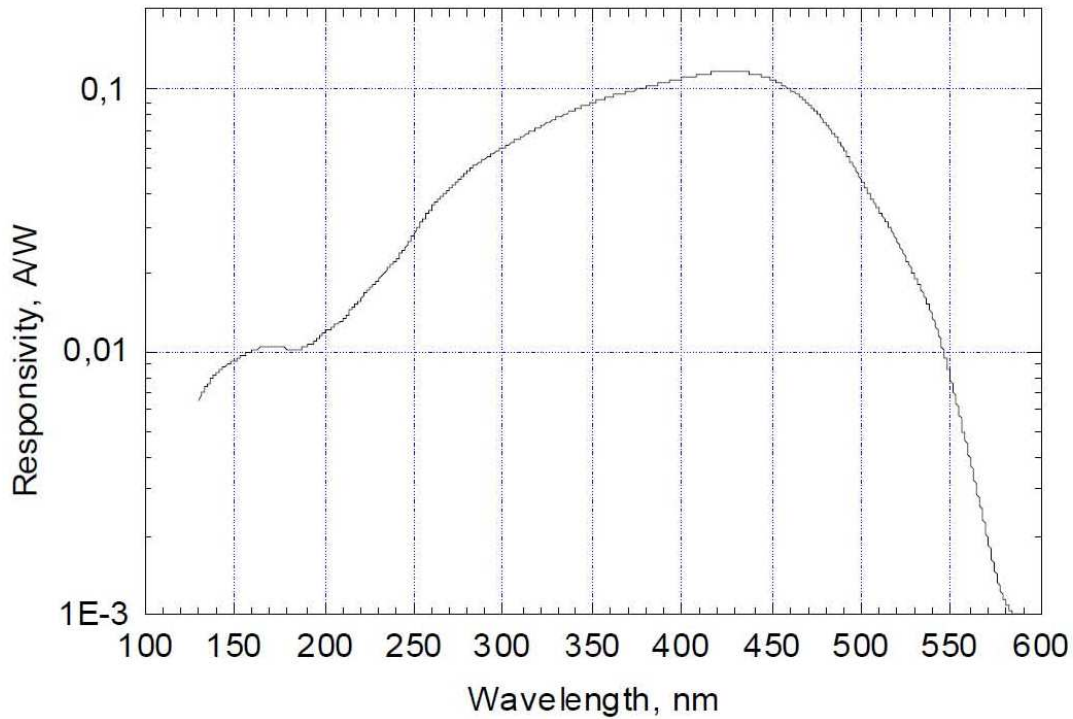
ITEMS	SYMBOL	RATINGS	UNIT
Active Area	A	4.8	mm ²
Temperature Coefficient of Ip	TC(Ip)	7	%K
Operating Temperature Range	T _{amb}	-40 to +125	°C
Storage Temperature Range	T _{stg}	-40 to +125	°C
Acceptance Angle at 50% of S _λ	φ	120	deg.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage 1*	Vr	Ir=10μA	5	--	--	V
Dark Current	Id	Vr=5V	--	15	40	pA
Peak Sensitivity Wavelength	λ _p	Vr=0V	--	440	--	nm
Responsivity at λ _p	S _λ	Vr=0V	0.1	0.13	--	A/W
Sensitivity Range at 1% of S _λ	λ _{min} , λ _{max}	Vr=0V	150	--	550	nm
Spectral Bandwidth at 50%	Δλ0.5	Vr=0V	--	180	--	nm
Shunt Resistance	Rsh	Vr=10mV	80	100	--	GΩ
Noise Equivalent Power	NEP	λ=440 nm	--	1.3 × 10 ⁻¹⁴	--	W/√Hz
Specific Detectivity	D*	λ=440 nm	--	1.7 × 10 ¹³	--	cm · √Hz · W ⁻¹
Junction Capacitance	Cj	Vr=0V	--	1000	--	pF
Photocurrent at λ=254 nm 1*	I _{ph}	Vr=0V E _e =1 mW/cm ²	--	2.5	--	μA

1* for information only

Typical responsivity



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.