

DESCRIPTION/产品描述

LXD-GAN22MK-UV is a Gallium nitride based material photodiode sensitive to 180-3700nm. It is mounted in a TO39 type header with clear glass encapsulation. Detector can be biased for lower dark current, faster response and narrow dynamic region.

LXD-GAN22MK-UV 光谱范围 180-370nm,氮化镓型硅光电二极管, TO39 金属玻璃组件。暗电流小,光谱范围窄等特点。

APPLICATIONS/典型应用

UV index monitoring/紫外检测
UV radiation dose measurement/紫外辐照度测量
Flame detection/紫外火焰探测器

FEATURES/特性

-Photovoltaic mode operation/光伏测量型
-High responsivity/高响应
low dark current/低暗电流

TYPICAL ABSOLUTE MAXIMUM RATINGS/ 典型额定参数

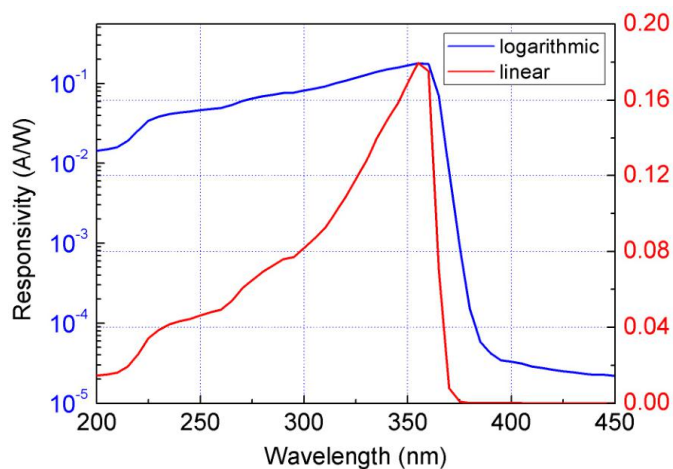
SYMBOL/符号		UNITS/单位	
BVR/反向击穿电压	10	V	Reverse Breakdown Voltage @25°C
Storage Temperature/贮存温度	-20 to +75	°C	-
Operating Temperature/工作温度	-20 to +65	°C	-
Soldering Temperature*/焊接温度	+260	°C	*Soldering Time < 3s/焊接时间小于 3s

* 1/8 inch(>3mm) from case for 3 seconds max.

TYPICAL OPTO-ELECTRICAL PARAMETERS@25°C/典型光电参数

PARAMETER 项目	TEST CONDITIONS 测试条件	Min 最小值	TYP 典型	MAX 最大值	UNITS 单位
Forward Voltage 正向电压	$I_F=10\text{ mA}$	0.5		1.3	V
Responsivity 响应度	355 nm		0.18		A/W
UV/visible rejection ratio	R max /R 400 nm		>10 4		
Dark Current 暗电流	1 V reverse bias		<1		nA
Spectrum Sensitivity 光谱响应范围		180		370	nm
Peak Sensing Wavelength 峰值波长			355		nm
Capacitance 电容	at 0 V and 1 MHz		72		pF
Temperature coefficient 温度系数			-0.1		%/°C

TYPICAL PERFORMANCE/典型曲线



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.