

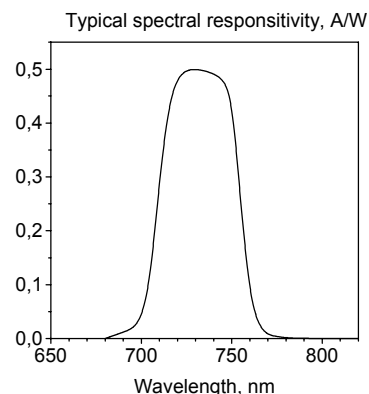
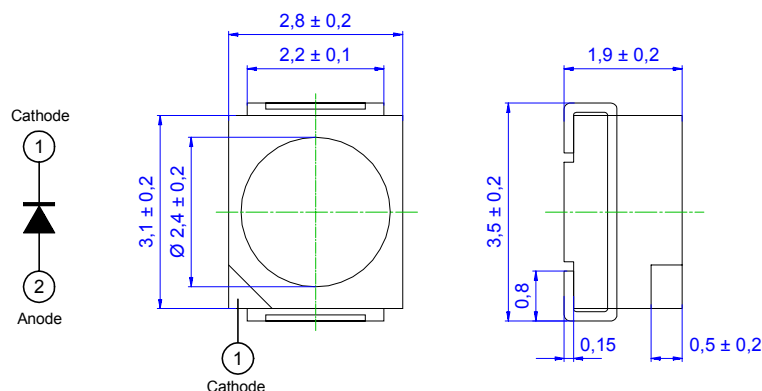
Reception	Type	Technology	Case
infrared	EPD-740-1	AlGaAs / GaAs	PLCC-2 (TOP-LED)

Description

Narrow response range (740nm peak)
single heterostructure with substrate

Applications

Optical communications,
safety equipment



Maximum Ratings

Parameter	Value	Unit
Storage Temperature	- 40 .. 90	°C
Operating Temperature	-40 .. 85	°C
Soldering Temperature	240	°C

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Active area		A		0.13		mm ²
Peak sensitivity	V _R = 0 V	λ _{Smax}	700	740	780	nm
Responsivity at 740 nm	V _R = 0 V	S _λ		0,5		A/W
Spectral bandwidth at 50%	V _R = 0 V	Δλ _{0,5}		60		nm
Short-circuit current	V _R = 0, E _e =1mW/cm ²	I _{SC}		1		μA
Dark current	V _R = 5 V, E _e =0	I _D		40	200	pA
Reverse voltage	I _R = 10 μA	V _R		10		V
Junction capacitance	V _R = 0, E _e =0	C		40		pF
Rise time	R _L = 50 Ω,	t _r		15		ns
Fall time	V _R = 5 V	t _f		30		ns