

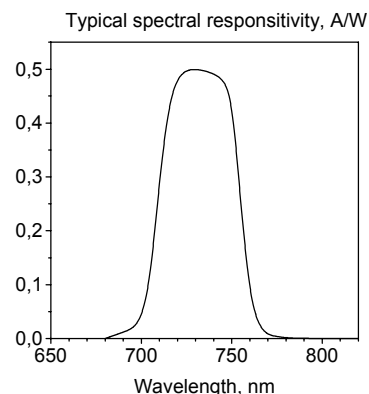
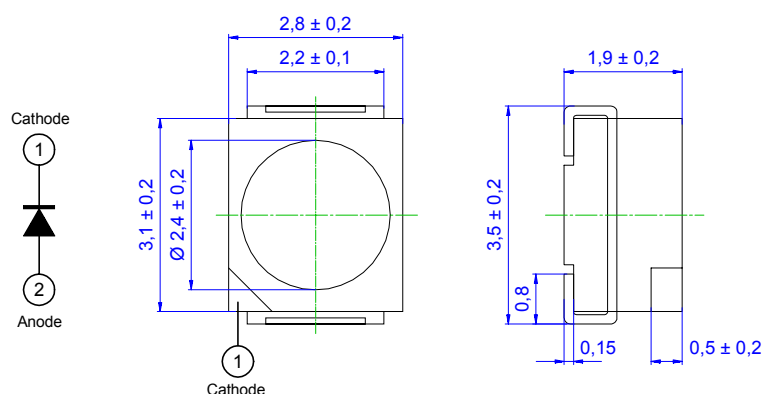
Reception	Type	Technology	Case
infrared	EPD-740-1	AlGaAs / GaAs	PLCC-2 (TOP-LED)

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

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Active area		A		0.13		mm ²
Peak sensitivity	$V_R = 0\text{ V}$	λ_{Smax}	700	740	780	nm
Responsivity at 740 nm	$V_R = 0\text{ V}$	S_{λ}		0,5		A/W
Spectral bandwidth at 50%	$V_R = 0\text{ V}$	$\Delta\lambda_{0,5}$		60		nm
Short-circuit current	$V_R = 0$, $E_e = 1\text{ mW/cm}^2$	I_{SC}		1		μA
Dark current	$V_R = 5\text{ V}$, $E_e = 0$	I_D		40	200	pA
Reverse voltage	$I_R = 10\text{ }\mu\text{A}$	V_R		10		V
Junction capacitance	$V_R = 0$, $E_e = 0$	C		40		pF
Rise time	$R_L = 50\text{ }\Omega$,	t_r		15		ns
Fall time	$V_R = 5\text{ V}$	t_f		30		ns