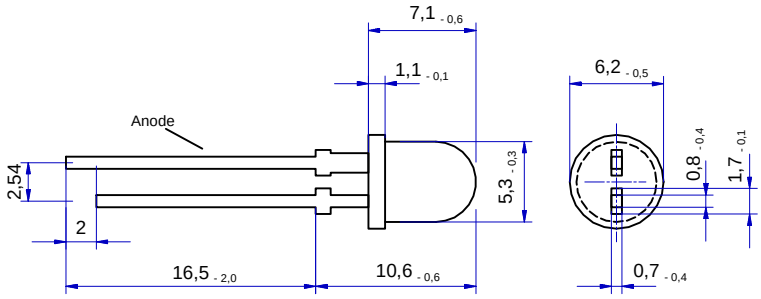
Selective Photodiode EPD-660-5

Preliminary data

Spectral range	Type	Technology	Case
Visible-red	EPD-660-5	AlGaAs/AlGaAs/GaAs	5 mm plastic lens

Description
Narrow response range (660 nm peak), single heterostructure on the 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		λ_{Smax}	620	660	700	nm
Spectral bandwidth at 50%		$Ä\lambda_{0,5}$		25		nm
Acceptance angle at 50% $S_ë$				40		deg.
Responsivity at 660 nm	V_R = 0 V	$S_ë$		0.42		A/W
Short-circuit current*	V_R = 0, E_e=1 mW/cm²	I_{SC}		0.85		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	Ñ		40		pF
Rise time Fall time	R_L = 50 , V_R = 5 V	t_r t_f		15 30		ns

*Light source is an AlGaAs LED with a peak emission wavelength of 660 nm