

## EPD-660-3-0.9

Wavelength	Туре	Technology	Case
Red	Red water clear		3 mm plastic lens
Anode 4.1.8 4.6 1.8 4.6 29.20	Anode 4,8.04 3,4.03 0,6.02		nounted in standard 3 mm off . Narrow response by means of integrated filter andoff available on request us, safety equipment,

## Miscellaneous Parameters

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

Parameter	Test conditions	Symbol	Value	Unit
Active area		А	0.62	mm²
Temperature coefficient of I <sub>D</sub>		$T_{C}(I_{D})$	5	%/K
Operating temperature range		T <sub>amb</sub>	-20 to +85	C
Storage temperature range		T <sub>stg</sub>	-30 to +100	C
Soldering Temperature	$t \leq 3$ s, 3 mm from case	T <sub>sld</sub>	260	C
Acceptance angle at 50% $S_{\lambda}$		φ	60	deg.

## **Optical and Electrical Characteristics**

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

Parameter	Test conditions	Symbol	Min	Тур	Max	Unit
Breakdown voltage <sup>1)</sup>	I <sub>R</sub> = 10 μA	V <sub>R</sub>	5			V
Dark current	V <sub>R</sub> = 1 V	I <sub>D</sub>		40	300	pА
Peak sensitivity wavelength	V <sub>R</sub> = 0 V	λρ		660		nm
Responsivity at $\lambda_P$	V <sub>R</sub> = 0 V	S <sub>λ</sub>		0.42		A/W
Sensitivity range at 1% <sup>1)</sup>	V <sub>R</sub> = 0 V	$\lambda_{min}, \lambda_{max}$	605		705	nm
Spectral bandwidth at 50%	V <sub>R</sub> = 0 V	$\Delta\lambda_{0.5}$		80		nm
Shunt resistance	V <sub>R</sub> = 10 mV	R <sub>SH</sub>	500	600		GΩ
Noise equivalent power	λ = 660 nm	NEP		8.5x10 <sup>-15</sup>		W/√Hz
Specific detectivity	λ = 660 nm	D*		9.2x10 <sup>12</sup>		$cm\cdot\sqrt{Hz}\cdot W^{-1}$
Junction capacitance	V <sub>R</sub> = 0 V	CJ		160		pF
Switching time ( $R_L = 50 \Omega$ )	V <sub>R</sub> = 1 V	t <sub>r</sub> , t <sub>f</sub>		500		ns
Photo-current at illuminant A <sup>1,2)</sup>	V <sub>R</sub> = 0 V E <sub>v</sub> = 1000 lx	I <sub>Ph</sub>		1.2		μA

<sup>1)</sup>for information only

 $^{\rm 2)}$  Standard light source with a color temperature of 2856 K

*Note:* The above specifications are for reference purpose only and subjected to change without prior notice.









