Preliminary Product Information
March 2012

PIN-Photodiode 4° FSR7852PAN

Features

* PIN-photodiode for general purpose
  Based on Silicon- Photodiode

*** Verry narrow viewing angle PD with 4°**

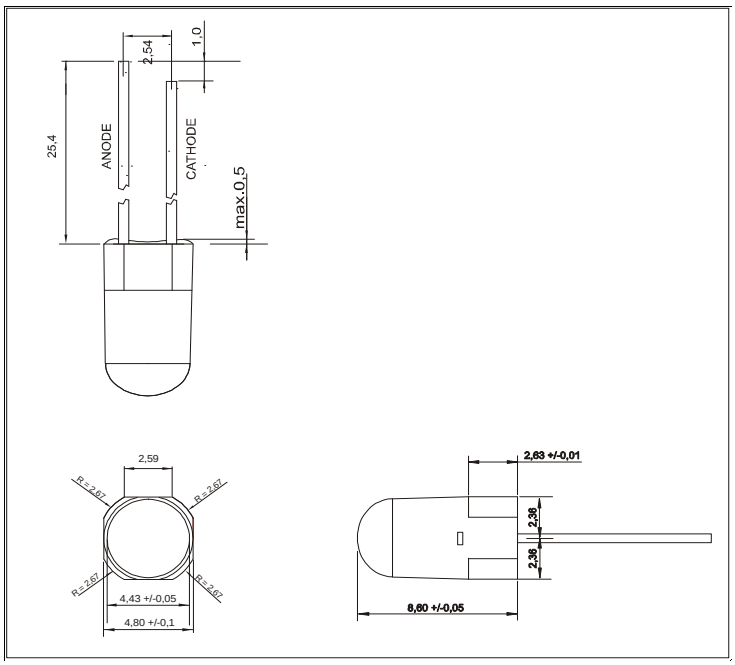
* High responsivity with typ. 0,55 A/W

* Water-clear package version

* Daylight filtered black housing version
  optimized for 850nm /870nm/950nm
  FSR7851PAN

* Mechanical matched with FQR65-LED-serie

* SMT-Version **FSS7852PAN**



Electrical and optical characteristics and absolute maximum ratings (Ta=25℃ unless otherwise noted)

Symbol	Parameter	MIN	Typ	MAX	Unit	Test conditions
I_{Light}	Reverse Light Current	2	9		µA	Ee= 1mW/cm²@870nm
I_{DARK}	Reverse Dark Current		2	10	nA	VR=10V; Ee=0 mW/cm²
I_{short}	Short Circuit Current		11		µA	Ee= 1mW/cm²@870nm
V_{RM}	Reverse Voltage	20			V	
$V_{forward}$	Reverse Breakdown Voltage	20			V	IR = 100µA Ee=0mW/cm²
V_{OC}	Open Circuit Voltage		410		mV	Ee=5mW/cm²@900nm
λ_{Peak}	Peak Wavelength		900		nm	max. sensitivity
$\lambda_{0,5}$	Spectral range	400		1100	nm	I=10%
t_f	Fall time		10		ns	VR=10V; RL=1KOhm
t_r	Rise time		10		ns	VR=10V; RL=1KOhm
A	Active Array		0,0314		mm²	
$2\Phi_{0,5}$	Response Angle	3,5	4	5	deg.	Φ i = 50%
C_J	Junction Capacity		3	6	pF	VR=5V; f=1 MHz; Ee=0 mW/cm²
$T_{Operating}$	Operating Temperature	- 40		85	℃	
$T_{Storage}$	Storage Temperature	- 40		85	℃	
$T_{Soldering}$	Soldering Temperature			260	℃	5mm from case @5 sec.
$\Theta_{j\text{-}PIN}$	Thermal Resistance		450		K/W	
P_{tot}	Total Power Dissipation			100	mW	

Order Informations : FSR7852PAN Bulk (1000pcs./bag)

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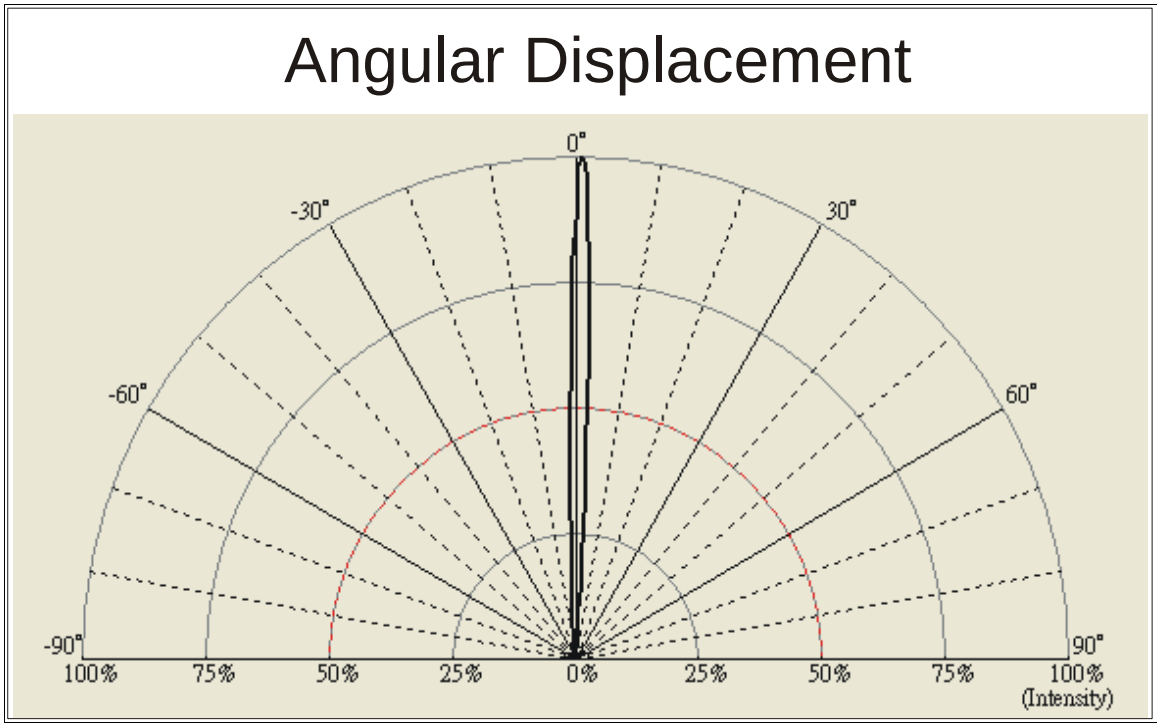

Pls. contact us for more technical detail informations !