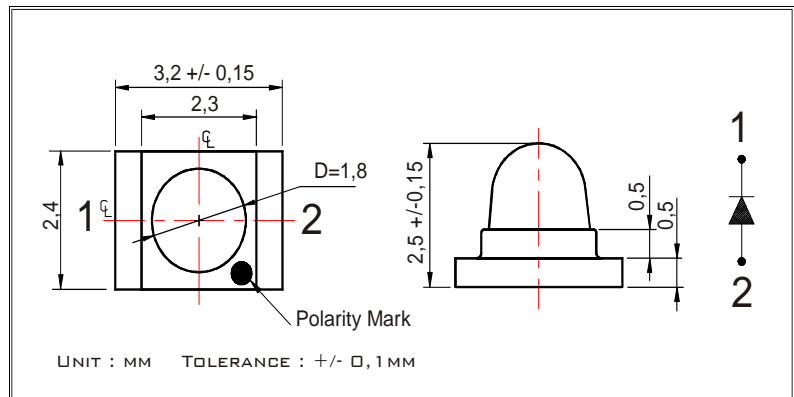


SMD-PIN-Photodiode

FSM3851OEE

Features

- * SMD- PIN-photodiode for general purpose
Based on Silicon- Photodiode
- * High responsivity with typ. 0,55 A/W
- * Daylight filtered black housing version
optimized for 850nm /870nm/950nm
- * Mechanical matched with FQM-LED-serie



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

Symbol	Parameter	MIN	Typ	MAX	Unit	Test conditions
I _{Light}	Reverse Light Current	2	3,5		µA	Ee= 1mW/cm ² @870nm
I _{DARK}	Reverse Dark Current		2	10	nA	VR=10V; Ee=0 mW/cm ²
I _{short}	Short Circuit Current		5		µA	Ee= 1mW/cm ² @870nm
V _{RM}	Reverse Voltage			30	V	
V _{forward}	Reverse Breakdown Voltage	30	60		V	IR = 100µA Ee=0mW/cm ²
V _{OC}	Open Circuit Voltage		410		mV	Ee=5mW/cm ² @900nm
λ _{Peak}	Peak Wavelength		900		nm	max. sensitivity
λ _{0,5}	Spectral range	720		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		0,74		mm ²	
2Φ _{0,5}	Response Angle		35		deg.	Φ _i = 50%
C _J	Junction Capacity		6	10	pF	VR=5V; f=1 MHz; Ee=0 mW/cm ²
T _{Operating}	Operating Temperature	- 40		85	°C	
T _{Storage}	Storage Temperature	- 40		85	°C	
T _{Soldering}	Soldering Temperature			260	°C	5mm from case @5 sec.
Θ _{j-PIN}	Thermal Resistance		450		K/W	
P _{tot}	Total Power Dissipation			100	mW	

Order Informations :

FSM3851OEE

Taped on Reel (1500pcs.)

Tape : Cathode is undepend on the polarity mark on the side of transportation lane

Fietje reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact Fietje for latest device specification sheets before using.