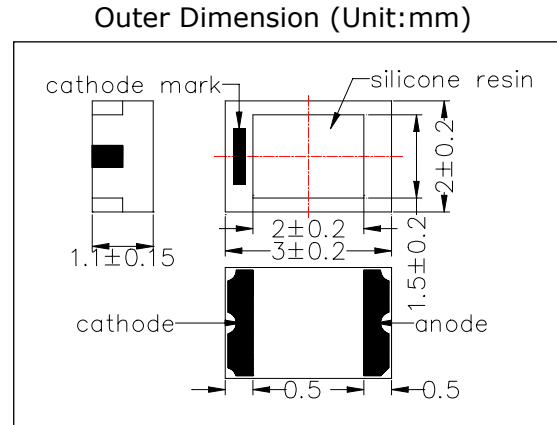


PD006-SMC
SMD Type Pin-Photodiode

PD006-SMD is a surface mount type PIN-Photodiode featuring excellent responsibility of 6 ns and high photocurrent. This PIN-Photodiode consists of a large chip with 0.44x0.44mm active area mounted in a ceramic package and covered with silicone. This device exhibits a half angle of sensitivity $\pm 40^\circ$.

<Specifications>

1. Product Name: SMD Type Pin-Photodiode
2. Type Number: PD006-SMC
3. Chip:
 - Chip Size: 0.6mm x 0.6mm
 - Active Area: 0.44mm x 0.44mm
4. Package
 - Type: Ceramics
 - Resin Material: Silicone



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Reverse Breakdown Voltage	VR	170	V
Operating Temperature	TOPR	-25 ~ +100	°C
Storage Temperature	TSTG	-30 ~ +125	°C
Soldering Temperature*	TSOL	240	°C

* Soldering condition must be completed within 2 seconds at 240°C

Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Reverse Photo Current	IL	VR=10V, L=1000Lx		6		uA
Reverse Dark Current	ID	VR=10V			10	nA
Open Circuit Voltage	VOC	VR=10V, L=1000Lx		390		mV
Spectral Responsibility(Peak)	λP			900		nm
Half Angle of Sensitivity	$\theta_{1/2}$			± 40		deg
Total Capacitance	CT	VR=10V, f=1MHz		6		pF
Rise Time	tr	RL=1k Ω , VR=10V		6		ns
Fall Time	tr			6		

