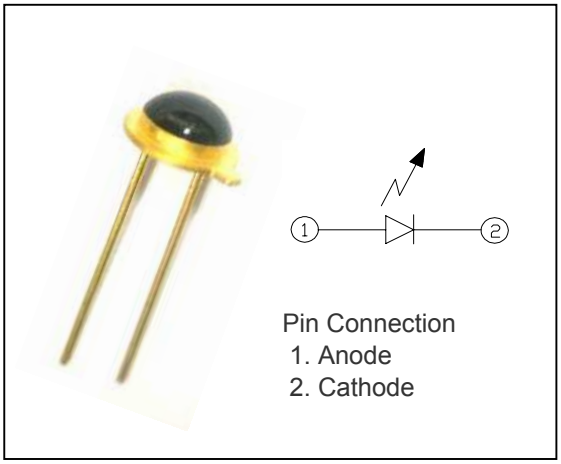
Photodiode

KSP-1MLR2

Description

The KSP-1MLR2, a silicon photodiode mounted in a TO-18 type header with black epoxy encapsulation, provides wide angular response and is relatively low-cos as compared to TO-18 can-type devices.



RoHS

Features

- Wide angular response
- Low profile package
- Relavtively low-cost against metal can package

Applications

- Optical detectors
- Infrared sensors
- Smoke detectors

Absolute Maximum Ratings

[T_A = 25℃]

Parameter	Symbol	Min.	Max.	Max.
Reverse Voltage	V_R	-	20	V
Operating Temperature	Topr	-25	90	℃
Storage Temperature	Tstg	-30	100	℃
Soldering Temperature*1	Tsol	-	260	℃

*1 : Distance from end of the package=2mm, time=5sec, Max

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Electrical Characteristics [T_A = 25℃]

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Open Circuit Voltage	Voc	Ev=1,000lux *1	-	0.4	-	V
Short Circuit Current	Isc		8	13	-	uA
Dark Current	Id	V_R=5V	-	-	0.1	uA
Capacitance	Ct	f=1MHz	-	50	-	pF
Temperature Coefficient of Voc	αt	V=0V, f=1MHz	-	-2.2	-	V
Temperature Coefficient of Isc	βt		-	0.18	-	MHz
Peak Emission Wavelength	λ_P		700	-	1,050	nm
Spectral Bandwidth 50%	Δλ		-	900	-	nm
Half Angle	Δθ	-	-	±60		deg

Package Outline Dimensions (Unit : mm)