

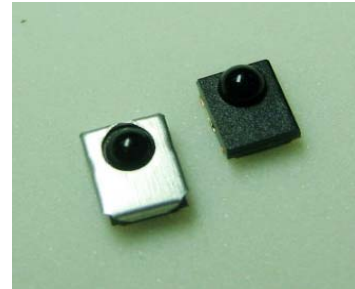
# NEW PRODUCT



## 4.3mmX5.2mm Small Size SMD Package Remocon

### Description

The KSM-50xSeries consist of a PIN photodiode of high speed and a preamplifier IC in the package as a receiver for infrared remote control systems



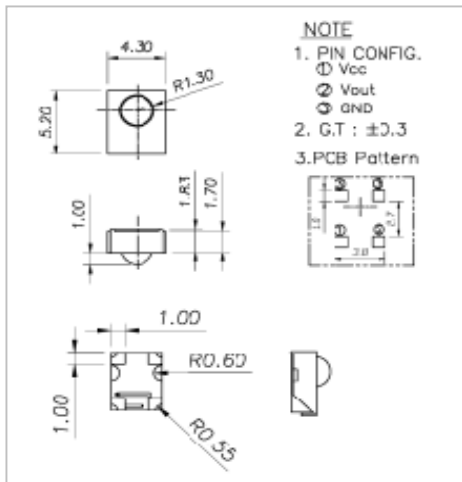
### Features

- Small Size SMD Package
- Wide Supply-Voltage Range : 2.7V to 5.5V
- Shielded against Electrical Field Disturbance
- High Immunity against Ambient Light Disturbances (Logic Controller Adaptation)

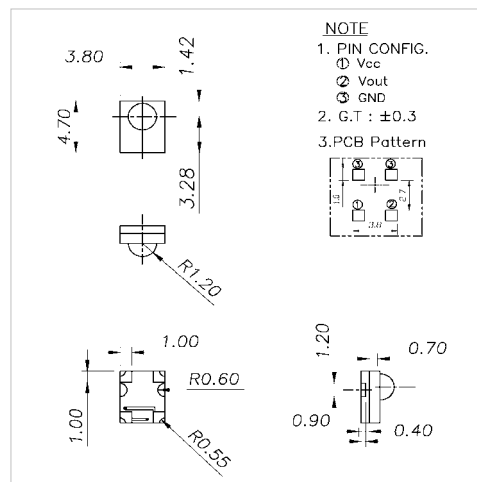
### Application

- Audio & Video Applications (TV, VTR, Audio, DVDP, CDP)
- Home Appliances (Air conditioner, Computer, Camcoder)
- Wireless Toys
- Remote Control Equipment

### Outline Dimensions



KSM-50xM2S



KSM-50xN2S

## ELECTRO- OPTICAL CHARACTERISTICS

### ■ KSM-50xM2S

[Ta= 25°C ]

Description	Symbol	Condition	Min.	Typ.	Max.	Unit	
Recommended Supply Voltage	V <sub>CC</sub>		2.7	-	5.5	V	
Current Consumption	I <sub>CC</sub>	No signal input	0.5	0.8	1.5	mA	
Peak Wavelength	λ <sub>P</sub>		-	940	-	nm	
B.P.F Center Frequency	f <sub>o</sub>		-	37.9	-	kHz	
Transmission Distance	L	250 ±50lx	0 °	8	-	-	m
			± 30 °	5	-	-	
High Level Output voltage	V <sub>OH</sub>	30cm over the ray axis	4.2	5.0	-	V	
Low Level Output voltage	V <sub>OL</sub>		-	0.1	0.5	V	
High Level Output Pulse Width	T <sub>WH</sub>	Burst wave=600 μs Period = 1.2ms	400	600	800	μs	
Low Level Output Pulse Width	T <sub>WL</sub>		400	600	800	μs	
Output Form	Active Low Output						

### ■ KSM-50xN2S

[Ta= 25°C ]

Description	Symbol	Condition	Min.	Typ.	Max.	Unit	
Recommended Supply Voltage	V <sub>CC</sub>		2.7	-	5.5	V	
Current Consumption	I <sub>CC</sub>	No signal input	0.5	1.2	1.7	mA	
Peak Wavelength	λ <sub>P</sub>		-	940	-	nm	
B.P.F Center Frequency	f <sub>o</sub>		-	37.9	-	kHz	
Transmission Distance	L	250 ±50lx	0 °	8	-	-	m
			± 30 °	5	-	-	
High Level Output voltage	V <sub>OH</sub>	30cm over the ray axis	4.5	5.0	-	V	
Low Level Output voltage	V <sub>OL</sub>		-	0.1	0.5	V	
High Level Output Pulse Width	T <sub>WH</sub>	Burst wave=600 μs Period = 1.2ms	500	600	700	μs	
Low Level Output Pulse Width	T <sub>WL</sub>		500	600	700	μs	
Output Form	Active Low Output						