

# Light detecting units

T-41-67

## ■ GENERAL DESCRIPTION

Sharp light detecting units combine a PIN photodiode and a signal processing circuit in one unit. Due to their compact packages, they are optimum for light detecting portion in electronic home appliances. It is most suited in combination with the infrared light emitting diode, GL527, GL528, GL537 or GL538 for use in remote controllers.

## ■ FEATURES

- Various B.P.F. (Band Pass Filter) frequency
- Wide range of installation method

## ■ APPLICATIONS

Remote controllers in electronic home appliances and AV equipment

## LIGHT DETECTING UNITS

(Ta=25°C)

Series	GP1U56 Series	GP1U50X Series	GP1U52X Series	GP1U52Y Series	*1 GP1U52Q Series			
Viewing direction	Top viewing	Top viewing	Top viewing	Side viewing				
Height	5.5mm	12mm	16mm	13.25mm				
Absolute Maximum Ratings	V <sub>CC</sub> (V)	6.3						
	T <sub>opr</sub> (°C)	-10 ~ +60						
Electrical Characteristics	I <sub>CC</sub> (mA)	5						
	V <sub>OH</sub> (V)	V <sub>CC</sub> -0.5						
	V <sub>OL</sub> (V)	0.45						
	T <sub>1</sub> (μs)	MIN. 400 MAX. 800	440 770	400 800	400 800	400 800		
T <sub>2</sub> (μs)	MIN. 400 MAX. 800	440 770	400 800	400 800	400 800			
CR filter	—	○	○	○	○			
B.P.F. frequency	40kHz	GP1U56	GP1U50X	GP1U52X	GP1U52Y	GP1U52Q		
	38kHz	GP1U561	GP1U501X	GP1U521X	GP1U521Y	GP1U521Q		
	36.7kHz	GP1U562	GP1U502X	GP1U522X	GP1U522Y	GP1U522Q		
	32.75kHz	GP1U563	GP1U503X	GP1U523X	GP1U523Y	GP1U523Q		
	41.7kHz	GP1U565	GP1U505X	GP1U525X	GP1U525Y	GP1U525Q		
	48kHz	GP1U566	GP1U506X	GP1U526X	GP1U526Y	GP1U526Q		
	56.8kHz	GP1U567	GP1U507X	GP1U527X	GP1U527Y	GP1U527Q		
	39kHz	GP1U568	GP1U508X	GP1U528X	GP1U528Y	GP1U528Q		
35kHz	GP1U569	GP1U509X	GP1U529X	GP1U529Y	GP1U529Q			
Outline Dimensions								
	① V <sub>CC</sub> ② V <sub>out</sub> ③ GND		① V <sub>out</sub> ② V <sub>CC</sub> ③ GND		① V <sub>out</sub> ② V <sub>CC</sub> ③ GND		① V <sub>out</sub> ② V <sub>CC</sub> ③ GND	
	(unit: mm)							
	*1 With conductive film for eliminating electro-magnetic induction noise							

