

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

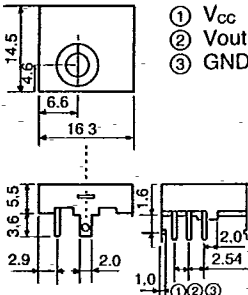
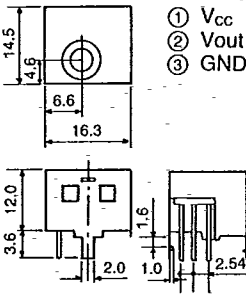
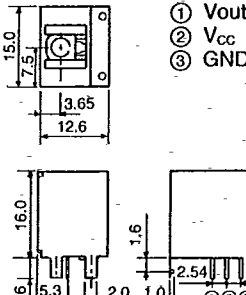
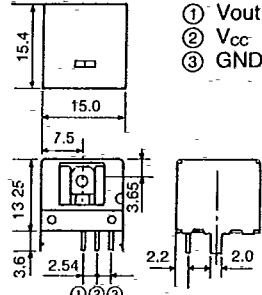
- Various B.P.F. (Band Pass Filter) frequency
- Wide range of installation method

■ APPLICATIONS

Remote controllers in electronic home appliances and AV equipment

LIGHT DETECTING UNITS

(Ta=25°C)

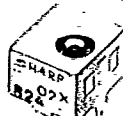
Series		GP1U56 Series		GP1U50X Series		GP1U52X Series		GP1U52Y Series		*1 GP1U52Q Series	
Viewing direction		Top viewing		Top viewing		Top viewing		Side viewing			
Height		5.5mm		12mm		16mm		13.25mm			
Absolute Maximum Ratings	V _{CC} (V)	6.3									
	T _{opr} (°C)	-10 ~ +60									
Electrical Characteristics	I _{CC} (mA)	5									
	V _{OH} (V)	V _{CC} -0.5									
	V _{OL} (V)	0.45									
	T ₁ (μs)	MIN.	400	440	400	400	400	400			
		MAX.	800	770	800	800	800	800			
	T ₂ (μs)	MIN.	400	440	400	400	400	400			
MAX.		800	770	800	800	800	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											
		(unit: mm)									

(unit: mm)

*1 With conductive film for eliminating electro-magnetic induction noise



GP1U56



GP1U50X



GP1U52X



GP1U52Y



GP1U52Q