

GP1UA26XK series IR Detecting Unit for Remote Control

Compact IR Detecting Unit for Remote Control

Features

- (1) Compact
- (2) Low dissipation current
Dissipation current: MAX.1.5mA
- (3) Height from PWB to detector face same as GP1U26X series
- (4) Product lineup includes types with strengthened resistance to electromagnetic induction noise.
- (5) Profile variations enable flexible mounting.

Applications

- (1) AV equipment
- (2) Household appliances

Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Supply voltage	V _{CC}	0 to 6	V
*1 Operating temperature	T _{opr}	-10 to +70	°C
Storage temperature	T _{stg}	-20 to +70	°C
*2 Soldering temperature	T _{sol}	260	°C

*1 No dew formation

*2 For 5s

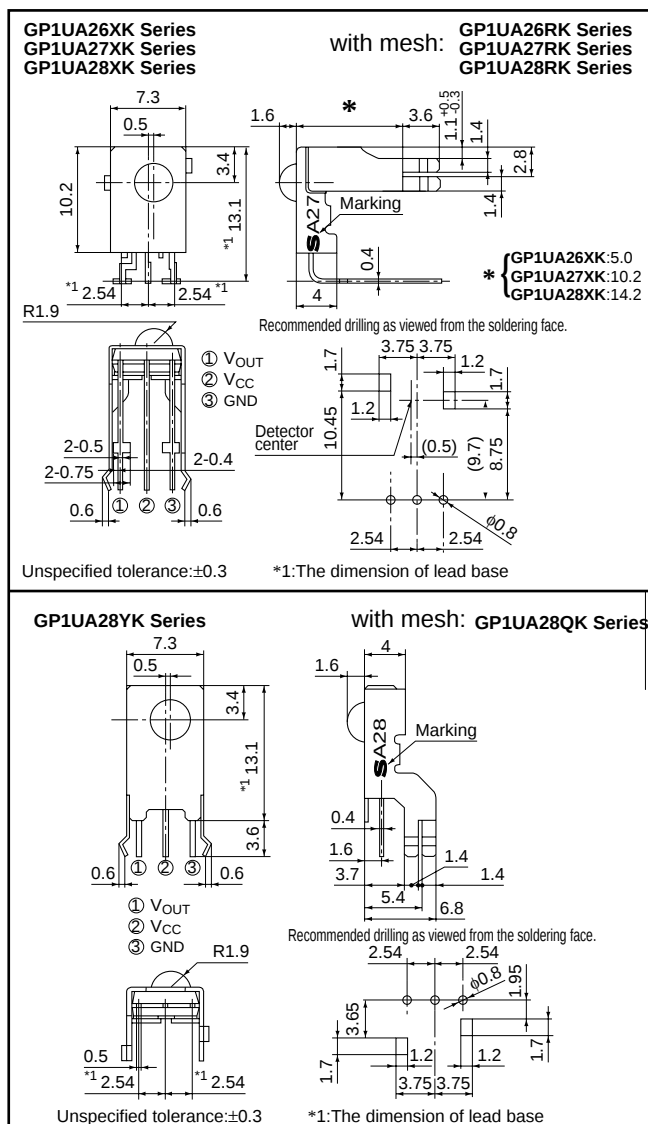
Recommended Operating Conditions

(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Supply voltage	V _{CC}	4.5 to 5.5	V

Outline Dimensions

(Unit: mm)



(Notice)

- In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.
- Specifications are subject to change without notice for improvement.
- (Internet)
- Data for Sharp's optoelectronic/power devices is provided on internet. (Address <http://sharp-world.com/ecg/>)

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Electrical Characteristics

(Ta=25°C, Vcc=+5V)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Dissipation current	I _{CC}	No incident light, V _{CC} =3V	-	0.95	1.5	mA
High level output voltage	V _{OH}	-	V _{CC} - 0.5	-	-	V
Low level output voltage	V _{OL}	I _{OL} =1.6mA	-	-	0.45	V
B.P.F. center frequency	f _o	-	-	*3	-	kHz
Detecting distance *4	L	-	10.5/*8.5	-	-	m

*3 B.P.F. center frequency for each model is shown in the list below.

*types with strengthened resistance to electromagnetic induction noise.

*4 B.P.F. center frequency 56.8 kHz type: MN. 9/*7.

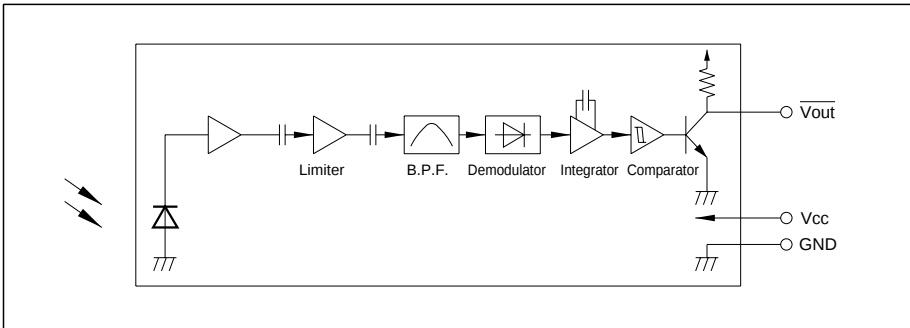
Model Line-ups

Various B.P.F. frequencies matching with customers' requirements are also available.

B.P.F. frequencies	Model No.				
40kHz		GP1UM26XK	GP1UM27XK	GP1UM28XK	GP1UM28YK
	*	GP1UM26RK	GP1UM27RK	GP1UM28RK	GP1UM28QK
36kHz		GP1UM260XK	GP1UM270XK	GP1UM280XK	GP1UM280YK
	*	GP1UM260RK	GP1UM270RK	GP1UM280RK	GP1UM280QK
38kHz		GP1UM261XK	GP1UM271XK	GP1UM281XK	GP1UM281YK
	*	GP1UM261RK	GP1UM271RK	GP1UM281RK	GP1UM281QK
36.7kHz		GP1UM262XK	GP1UM272XK	GP1UM282XK	GP1UM282YK
	*	GP1UM262RK	GP1UM272RK	GP1UM282RK	GP1UM282QK
56.8kHz		GP1UM267XK	GP1UM277XK	GP1UM287XK	GP1UM287YK
	*	GP1UM267RK	GP1UM277RK	GP1UM287RK	GP1UM287QK

* types with strengthened resistance to electromagnetic induction noise.

Block Diagram



As of September 2001