

APPLICATIONS:

•
DVD

•
Set Top Box

IR Detecting Sensors/ IR Detecting Units for Remote Control

Series Number	Absolute Maximum Ratings		Electrical Characteristics				Size (mm) (W × L × H)
	V _{CC} (V)	Topr (°C)	I _{CC} (mA) MAX ¹	V _{OH} (V) MIN.	V _{OL} (V) MIN.	f _o (kHz) TYP.	
IS1U60/IS1U60L ¹¹	6.0	-10 to +60	4.5	V _{CC} -0.2 ²	0.6 ²	38	7.0 × 8.5 × 6.5
IS1U62I/IS1U62IL ¹¹	0. to 6.0	-10 to +60	4.5	V _{CC} -0.2 ³	0.6 ³	38	7.0 × 8.5 × 6.5
GP1U57X ^{7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	14.5 × 16.3 × 12.0
GP1U27X ¹¹	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	7.3 × 13.3 × 12.0
GP1U27R ^{6,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁵	7.3 × 13.3 × 12.0
GP1UC7X ^{10,12}	4.0	-10 to +70	2.5	V _{CC} -0.5 ³	0.5 ³	40 ⁵	7.3 × 13.3 × 12.0
GP1U58X ^{7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	15.0 × 12.6 × 16.0
GP1U28X ¹¹	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	7.3 × 13.3 × 16.0
GP1U28R ^{6,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ⁴	40 ⁵	7.3 × 13.3 × 16.0
GP1U58Y ^{7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	15.0 × 15.4 × 13.25
GP1U28Y ¹¹	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	7.3 × 6.8 × 13.0
GP1U28Q ^{6,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁵	7.3 × 8.4 × 13.0
GP1UC8Y ^{10,12}	4.0	-10 to +70	2.5	V _{CC} -0.5 ³	0.5 ³	40 ⁵	7.3 × 6.8 × 13.0
GP1U29Q ^{6,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁵	7.3 × 15.7 × 22.4
GP1U59X ^{7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁵	14.5 × 16.3 × 5.5
GP1U77R ^{6,7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁵	14.5 × 16.3 × 12.0
GP1U78R ^{6,7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁵	15.0 × 12.6 × 15.6
GP1U78Q ^{6,7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁵	15.0 × 15.1 × 13.25
GP1U80IX ^{7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	38	15.0 × 12.6 × 17.5
GP1U90X ^{7,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁸	8.7 × 10 × 6.85
GP1U26X	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ³	40 ⁸	7.3 × 13.3 × 6.8
GP1U26R ⁶	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ⁴	0.45 ⁴	40 ⁸	7.3 × 13.3 × 6.8
GP1UC6X ^{10,12}	4.0	-10 to +70	2.5	V _{CC} -0.5 ³	0.5 ³	40 ⁵	7.3 × 13.3 × 6.8
GP1U10X ^{9,11}	0 to 6.3	-10 to +70	5.0	V _{CC} -0.5 ³	0.45 ²	40 ⁸	7.7 × 8.1 × 3.5
GP1UC10 ^{10,12}	4.0	-10 to +70	2.5	V _{CC} -0.5 ³	0.5 ³	40 ⁸	7.7 × 8.1 × 3.5

NOTES:

- When no signal is input (during input light).
- Distance to transmitter on optical axis is 0.2 to 5 m.
- Distance to transmitter on optical axis is 0.2 to 8 m.
- Distance to transmitter on optical axis is 0.2 to 6.5 m.
- In addition to the f_o = 40 kHz type, various type f_o = 38, 36.7, 32.75, 56.8 (partly 36) kHz are also available.
- Type with strengthened resistance to electromagnetic induction noise.
- Type with strengthened resistance to optical noise from inverter-controlled fluorescent lamp.
- In addition to the f_o = 40 kHz type, various type f_o = 38, 36.7, 56.8 kHz are also available.
- Allow reflow soldering.
- Operating voltage: 2.4 V to 3.6 V.
- Voltage-regulator circuit is built-in, but an exterior C, R for the power supply filter may be necessary, depending on the use environment.
- Needs C, R for power supply filter.
- T_A = 25°C