

LED for Bar Graphic Display

Absolute Maximum Ratings (Figures shown below are values per segment.)

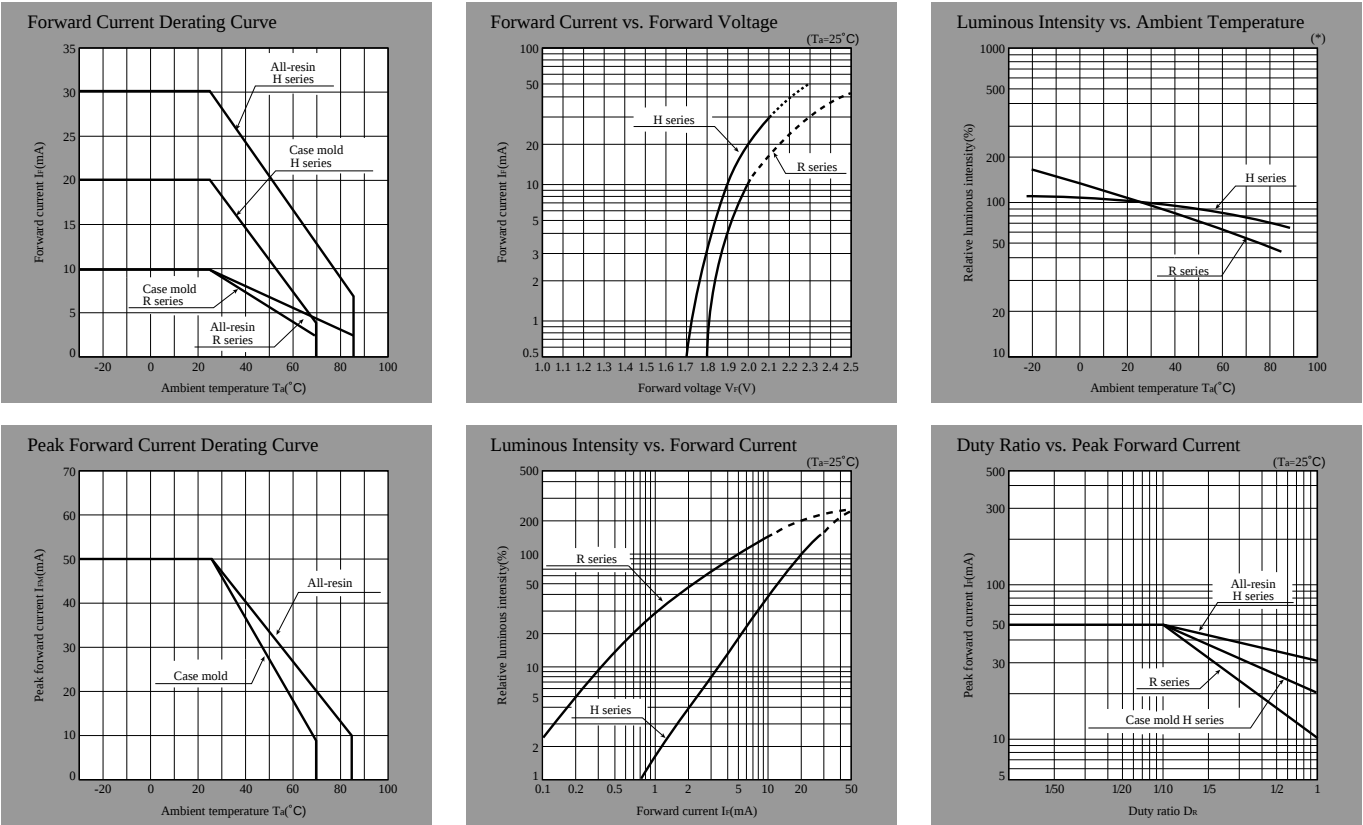
Type	Series	Radiation color	Power dissipation	Forward current	Peak forward current ^{*1}	Derating factor		Reverse voltage	Operating temperature	Storage temperature
			P (mW)	I _F (mA)	I _{FM} (mA)	(mA/°C)		V _R (V)	T _{opr.} (°C)	T _{stg.} (°C)
Case mold	R	Red	25	10	50	0.18	0.91	5	-20 to +70	-30 to +80
	H	Yellow	50	20	50	0.36	0.91	5	-20 to +70	-30 to +80
	M	Yellow-green	38	15	50	0.27	0.91	5	-20 to +70	-30 to +80
		Red	25	10	50	0.18	0.91	5		
All resin	R	Red	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100
	H	Yellow	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100
	M	Yellow-green	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100
		Red	23	10	50	0.13	0.67	5		

*1 Duty ratio=1/10, Pulse width=0.1ms

Electro-optical Characteristics (Figures shown below are values per segment.)

Type	Series	Radiation color	Forward voltage V _F (V)		Luminous intensity I _V (mcd)		Peak emission wavelength λp(nm) TYP.	Spectrum radiation bandwidth Δλ(nm) TYP.		Reverse current	
			TYP.	MAX.	MIN.	TYP.		I _F (mA)	I _R (μA) MAX.	V _R (V)	
Caè mold	R	Red	1.9	2.5	0.15	0.3	695	100	5	10	4
	H	Yellow	1.9	2.5	0.2	0.5	585	30	10	10	4
	M	Yellow-green	2.0	2.5	0.2	0.5	565	30	10	10	4
		Red	1.9	2.5	0.15	0.3	695	100	5	10	4
All resin	R	Red	1.9	2.3	0.3	0.9	695	100	5	10	4
	H	Yellow	2.0	2.8	1.5	5.0	585	30	20	10	4
	M	Yellow-green	2.1	2.8	0.6	1.4	565	30	20	10	4
		Red	1.9	2.3	0.3	0.9	695	100	5	10	4

Characteristics Diagrams



* As for current conditions, refer to I_F in electro-optical characteristics

(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.
(Internet) • Data for sharp's optoelectronic/power device is provided for internet.(Address <http://www.sharp.co.jp/ecg/>)

LED Driver IC for Bar Graphic Display

Driver IC

Number of dots	LED for bar graphic display	Display		Model No.		Scale (dB)	DC input	AC input	Peak hold	Fixed gain	Luminosity adjustment	Signal detection	Low noise	Switch for bar/dot	Battery operation	Deflection	Package	
		Dot configuration	CH															
12	GL112R9 series GL112R13 series	12	1	IR2E16	VU	-20 to +6		1			●		●				22DIP	
				IR2432		1				●								
				IR2E30		1			●	●		●						
				IR2E41					●	●								
				IR2E05			-20 to +10				●							
				IR2E10		-30 to +6												
				IR2406	Linear	12 steps	1				●							
				IR2406G							●							
				IR2433							●							
				IR2431							●							
		IR2E44	Logarithm	-44 to 0		1		●	●		●							
		2	VU	-20 to +8	2										16DIP			
IR2E43	-40 to +10			1	2	●								28SDIP				
5+7	1	IR2E38	VU	-20 to +8		1	●	●	●							22DIP		
		IR2E19/N		-20 to +6		1		●	●	●						16DIP 16SOP		
7	GL107R8 series GL107R12 series	7	2	IR2E28	Linear	7 steps	2			●	●		●				22DIP	
				IR2E09				VU	-20 to +6		1			●				
			3+4	1	IR2E02	Logarithm	-42 to 0	1			●	●	●					
		IR2E29																
		5	GL105R8 series GL105R11 series	5	1	IR2E13	VU	-15 to +3	1	1						●		
IR2E31A	-10 to +6							1		●								9SIP
IR2E32N9								2							●			14SOP
IR2E27A					2				●									
2+3	1			IR2E01				1			●							16DIP
				IR2E24				2				●						

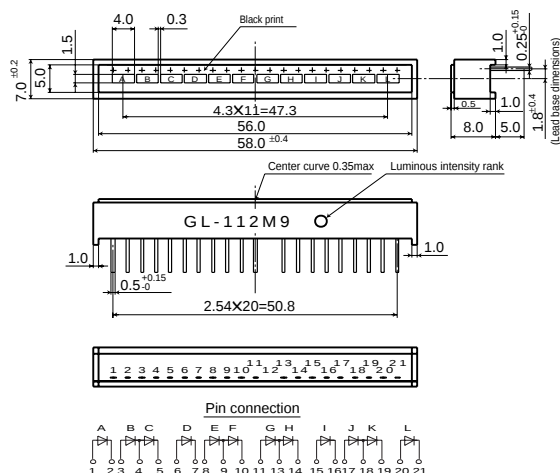
* There are no specific driver ICs for 6 dots, 4 dots, 3 dots. Please select alternative driver ICs of 7 dots, 5 dots, 5 dots.

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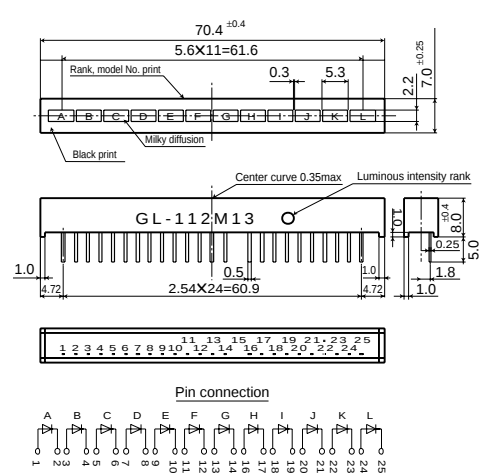
LED for Bar Graphic Display Outline Dimensions(Unit:mm)

1



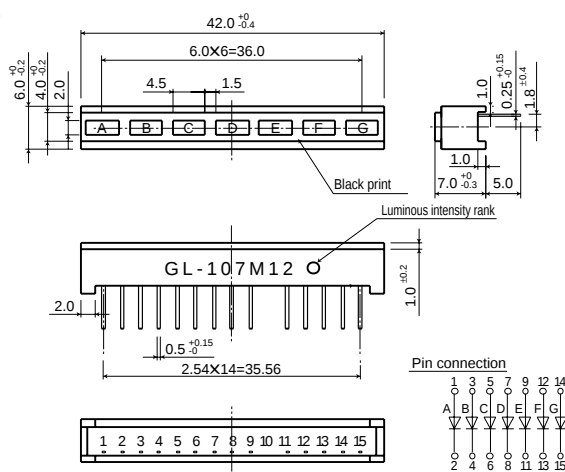
GL112□9 Series

2



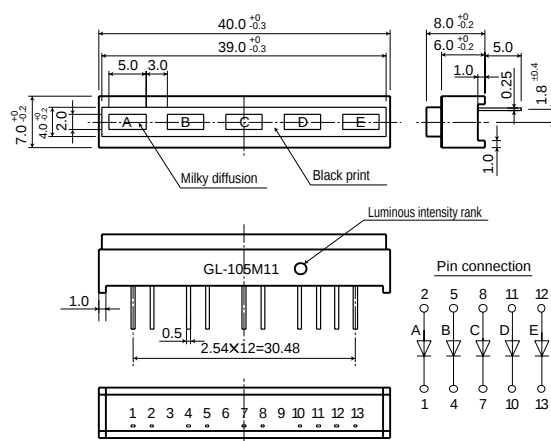
GL112□13 Series

3



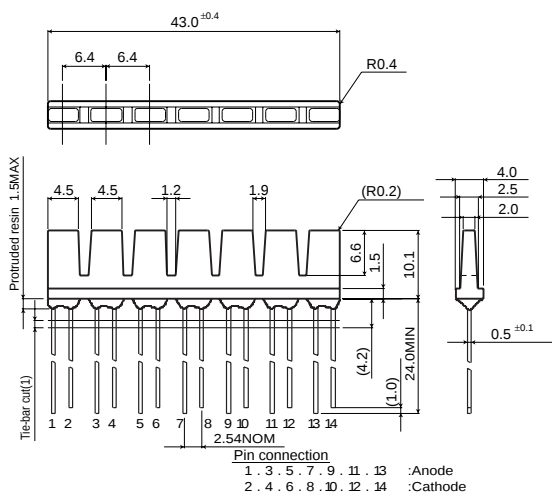
GL107□12 Series

4



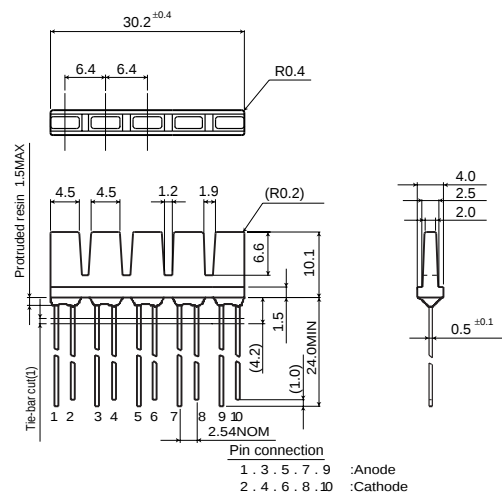
GL105□11 Series

5



GL107□8 Series

6



GL105□8 Series