GL5ED60

ϕ5mm (T-1¾) Cylinder Type Dichromatic LED Lamp

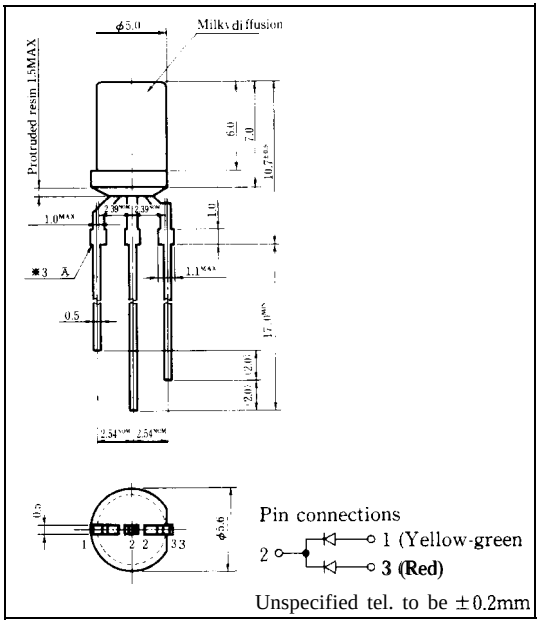
■ Model No.

GL5ED60	Yellow-green	GaP
	Red	GaAsP/GaP

■ Features

1. ϕ 5mm (T-1¾) all resin mold
2. Radiation color : Red, yellow-green and orange (mixed color)
3. Milky diffusion lens type
4. Wide viewing angle (flat top package)

■ Outline Dimensions (Unit: mm)



■ Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	GL5ED60				Unit
			Yellow-green	Red			
※1 Power dissipation		P	84	84			mW
Continuous forward current		IF	30	30			mA
※2 Peak forward current		IFM	50	50			mA
Derating factor	DC	–	0.40	0.40			mA/℃
	Pulse	–	0.67	0.67			mA/℃
Reverse voltage		VR	5				V
Operating temperature		Topr	–25 to +85				℃
Storage temperature		Tstg	–25 to +100				℃
※3 Soldering temperature		Tsol	260 (within 5 seconds)				℃

※ 1 The value of power dissipation is specified under the condition that either yellow-green or red is lightened separately. When the both diodes of yellow-green and red are lightened simultaneously, the power dissipation of each diode should be less than the half of the value specified in this table.
※2 Duty ratio= 1/10, Pulse width =0.1ms
※3 At the Ⓐ position of above outline dimensions

GL5ED60 (Yellow-green/Red)

■ Electro-optical Characteristics

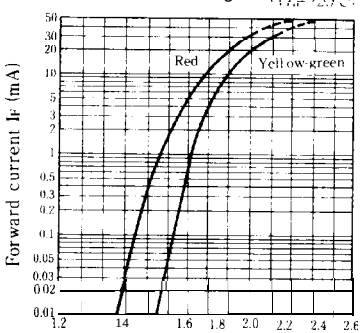
(Ta = 25℃)

Parameter	Symbol	Radiation color	Conditions	MIN.	TYP	MAX	Unit
Forward voltage	V_F	Yellow-green	I_F = 20mA	–	2.1	2.8	V
		Red	I_F = 20mA	–	2.0	2,8	
※4 Luminous intensity	I_V	Yellow-green	I_F = 20mA	5.0	11	–	
		Red	I_F = 20mA	3.0	8.0	–	‘cd
Peak emission wavelength	λ_p	Yellow-green	I_F = 20mA		565	–	
		Red	I_F = 20mA		635	–	‘m
Spectrum radiation bandwidth	$\Delta\lambda$	Yellow-green	I_F = 20mA	–	30	–	
		Red	I_F = 20mA		35	–	‘m
Reverse current	I_R	Yellow-green	V_R = 4V	–	–	10	μA
		Red	V_R = 4V			10	
Terminal capacitance	C,	Yellow-green	V = 0V f = 1 MHz	–	35	–	pF
		Red	V = OV f = 1MHz	–	20	–	
Response frequency	f_c	Yellow-green	–	–	4	–	MHz
		Red	–	–	4	–	

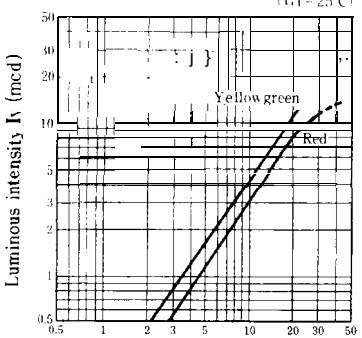
※4 Tolerance: ±30%

■ Characteristics Diagrams

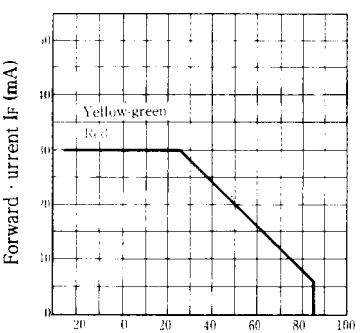
Forward Current vs. Forward Voltage



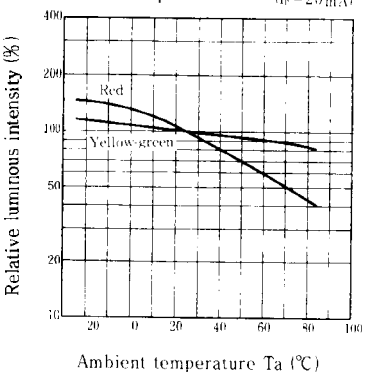
Luminous Intensity vs. Forward Current



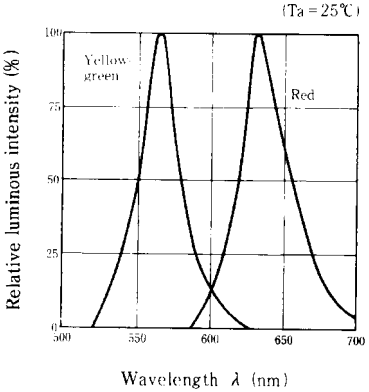
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution



Radiation Diagram