COTCO

5mm Oval Red/Green Bi−color LED

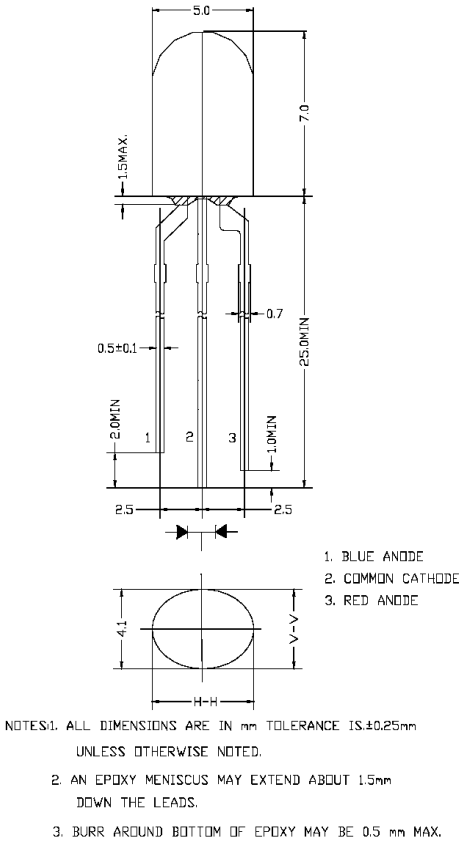
LO568MRG2−80Q−A

Features

5mm Oval Lens
No Stand Offs
White Diffused Lens
Red/Green Bi−color LED

Applications

Variable Message Signs
Message Board



Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.		Unit
		AHR	TPG	
Forward Current	I_F	50	25	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	125.00	105.00	mW
Operating Temperature	T_{opr}	−40 ~ +95	−40 ~ +95	°C
Storage Temperature	T_{stg}	−40 ~ +100	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	260	°C
Soldering Time	−	for 3 sec. max	for 3 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min		Typ		Max		Unit
			AHR	TPG	AHR	TPG	AHR	TPG	
Forward Voltage	V_F	I_F=20mA	−	−	2.00	3.60	2.50	4.20	V
Reverse Current	I_R	V_R=5V	−	−	−	−	100	100	μA
Luminous Intensity	I_V	I_F=20mA	102.00	145.00	150.00	280.00	−	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	−	80° x 60°	80° x 60°	−	−	deg.
Peak Wavelength	λp	I_F=20mA	−	−	632	522	−	−	nm
Dominant Wavelength	λd	I_F=20mA	−	−	624	527	−	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	−	20	-	−	−	nm

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LO568MRG2−80Q−A Graphs

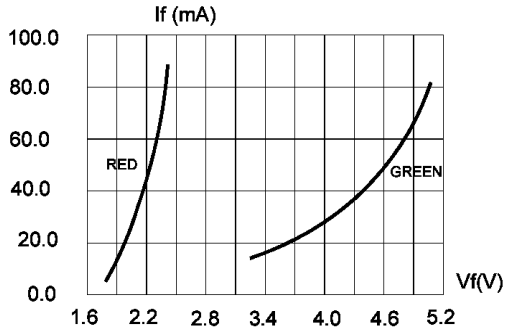

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

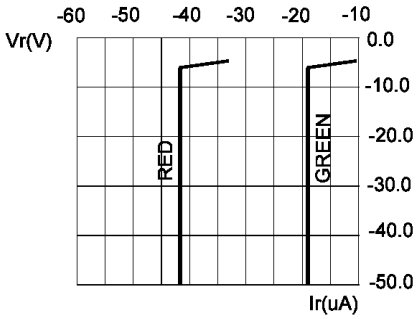

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

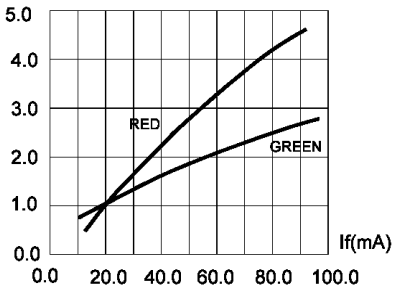

FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

Half Power △WL= G:38nm R:23nm

Domi WL= G:525nm R:624nm

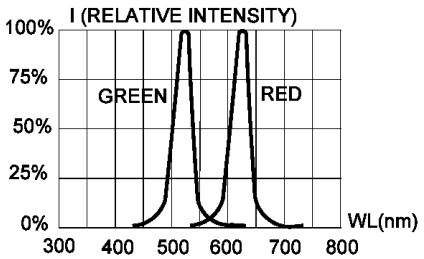

FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

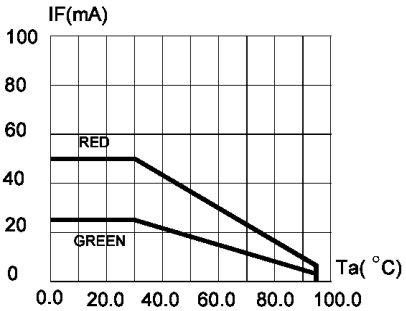

FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105 °C)

50% Power Angle : H-H : 80° V-V : 60°

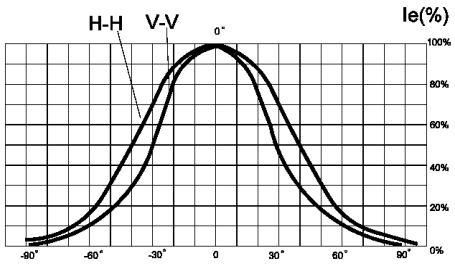

FIG.6 SPATIAL DISTRIBUTION.

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