



EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.

深圳市超毅光电子有限公司

φ 5.0 mm CYLINDRICAL WITH FLANGE LEDS.

Part Number:

RL40-RD313	RL40-SR113	RL40-HO313
RL40-HY213	RL40-YG413	RL40-SO423

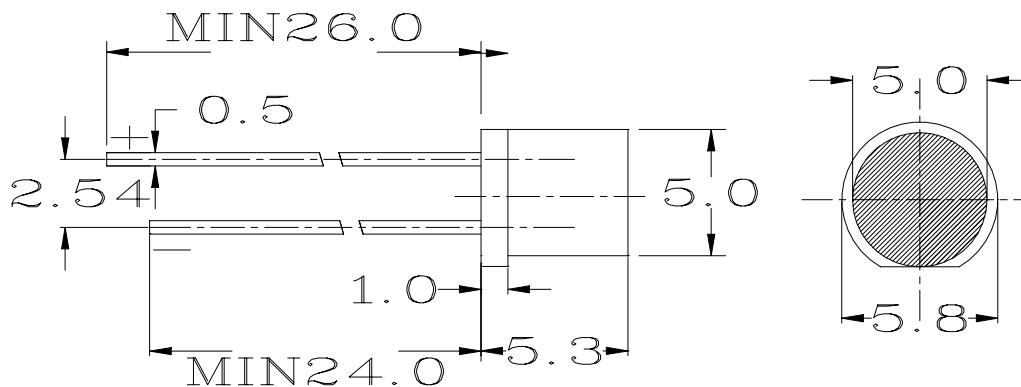
Features

1. LOW POWER CONSUMPTION.
2. RELIABLE AND RUGGED.
3. EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
4. SUITABLE FOR LEVEL INDICATOR.
5. I.C COMPATIBLE.
6. LONG LIFE-SOLIDSTATE RELIABILITY.

Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25(0.01'')$ unless otherwise niter
3. Lead spacing is measured where the lead emerge package
4. Specifications are subject to change without notice

Package Dimensions



Selection Guide

Part NO.	Lens Type	Material	Chip		Viewing Angle
			IV (mcd)		
			@10mA	*20mA	Min.
RL40-RD313	Bright Red Diffused	GaP/GaP	0.8	1.6	100°
RL40-SR113	Super Red Diffused	GaAlAs/GaAs	30	52	100°
RL40-HO313	Orange Red Diffused	GaAsP/GaP	24	43	100°
RL40-HY213	Yellow Diffused	GaAsP/GaP	18	29	100°
RL40-YG413	Yellow Green Diffused	GaP/GaP	20	37	100°
RL40-SO423	Super Amber Transparent	GaAsP/GaP	26	46	40°

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. *Luminous intensity with measured at 20mA.



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Electrical/Optical characteristics at TA=25°C.

Symbol	Parameter	Device	Type.	Max.	Units	Test Conditions
λ peak	Peak Wavelength	Bright Red	700		nm	IF-20mA
		Super Red	660			
		Orange Red	630			
		Yellow	585			
		Yellow Green	570			
		Super Amber	610			
λ D	Dominate Wavelength	Bright Red	690		nm	IF-20mA
		Super Red	640			
		Orange Red	610			
		Yellow	580			
		Yellow Green	560			
		Super Amber	600			
Δ λ 1/2	Spectral Line Halfwit	Bright Red	45		nm	IF-20mA
		Super Red	20			
		Orange Red	45			
		Yellow	35			
		Yellow Green	30			
		Super Amber	45			
C	Capacitance	Bright Red	40		pF	VF=0V; f=1MHZ
		Super Red	45			
		Orange Red	15			
		Yellow	20			
		Yellow Green	15			
		Super Amber	15			
VF	Forward Voltage	Bright Red	2.1	2.8	V	IF-20mA
		Super Red	1.8	2.4		
		Orange Red	2.0	2.8		
		Yellow	2.0	2.8		
		Yellow Green	2.1	2.8		
		Super Amber	2.0	2.8		
IR	Reverse Current	All		10	uA	VR=5V

Absolute Maximum Ratings at TA=25°C.

Parameter	Bright Red	Super Red	Orange Red	Yellow	Yellow Green	Super Amber	Units
Power dissipation	45	110	100	85	100	100	mW
DC Forward Current	25	25	25	25	25	25	mA
Peak Forward Current	50	200	160	160	160	160	mA
Reverse Voltage	5	5	5	5	5	5	V

NOTES:

1. Operating temperature: 40°C. TO 80°C.
2. Lead soldering: 260°C for 5 seconds.