


EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.
深圳市超毅光电子有限公司
φ 5.0mm CYLINDRICAL WITH FLANGE LEDS.
Part Number:

RL46-RD313

RL46-SR113

RL46-HO313

RL46-HY213

RL46-YG413

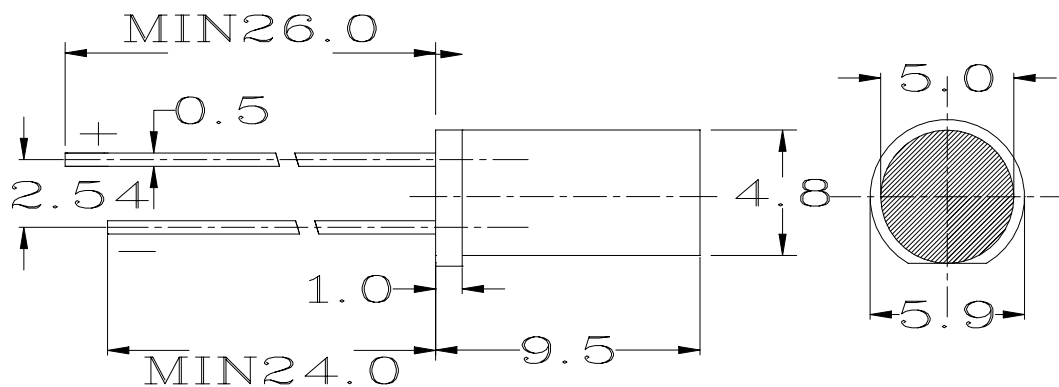
RL46-SO423

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 RELIABILTY.

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	2 θ 1/2
RL46-RD313	Bright Red Diffused	GaP/GaP	1.2	2.0	120°
RL46-SR113	Super Red Diffused	GaAlAs/GaAs	36	60	120°
RL46-HO313	Orange Red Diffused	GaAsP/GaP	28	48	120°
RL46-HY213	Yellow Diffused	GaAsP/GaP	22	40	120°
RL46-YG413	Yellow Green Diffused	GaP/GaP	27	49	120°
RL46-SO423	Super Amber Transparent	GaAsP/GaP	30	50	45°

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

2. *Luminous intensity with measured at 20mA.



Electrical/Optical characteristics at TA=25°C.

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