



EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.

深圳市超毅光电子有限公司

1.8" Single Digit Display.

Part Number:

RL-S1810GDBW

RL-S1810YCBW

RL-S1820OCAW

RL-S1820SBRW

RL-S1820RCBW

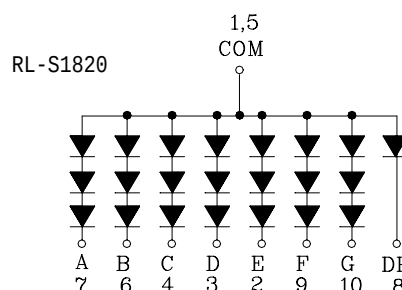
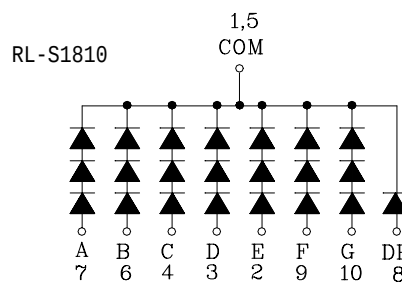
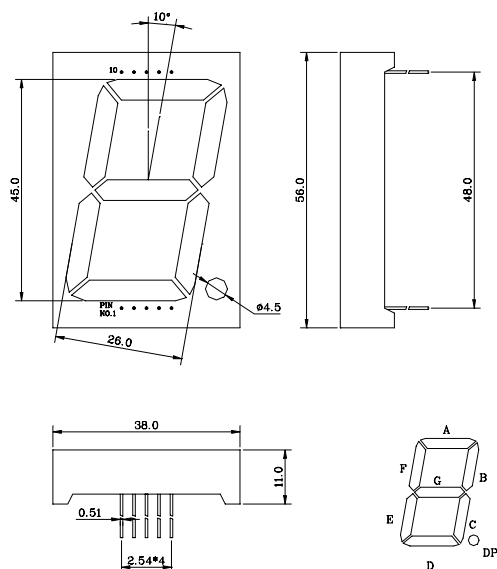
Features

- 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.Specifcations are subject to change without notice

Package Dimensions & Internal Circuit Diagram.



Selection Guide

Part NO.	Chip			Vf (V)			Face Color	C.C Or CA
	Material	Emitted Color	Δp (nm)	Typ.	Max	At IF=mA		
RL-S1810GDBW	GaP	Yellow Green	570	2600	3900	20	Black	C.C.
RL-S1810YCBW	GaAsP/GaP	Yellow	585	1250	1880	20	Black	C.C
RL-S1820OCAW	GaAsP/GaP	Orange Red	630	1580	2380	20	Gray	C.A.
RL-S1820SBRW	GaAlAs	Super Red	660	3570	5360	20	Red	C.A.
RL-S1820RCBW	GaP/GaP	Bight Red	700	260	390	20	Black	C.A.

1.All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01'')$ unless otherwise noted.

2.Specifications are subject to change without notice.



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Electrical/Optical characteristics at TA=25°C.

Symbol	Parameter	Device	Type.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Yellow Green Yellow Orange Red Super Red Bright Red	570 585 630 660 700		nm	IF-20mA
λ_D	Dominant Wavelength	Yellow Green Yellow Orange Red Super Red Bright Red	560 580 610 640 690		nm	IF-20mA
$\Delta \lambda_{1/2}$	Spectral Line Halfwidth	Yellow Green Yellow Orange Red Super Red Bright Red	30 35 45 20 45		nm	IF-20mA
C	Capacitance	Yellow Green Yellow Orange Red Super Red Bright Red	15 20 15 45 40		pF	VF=0V; f=1MHz
VF	Forward Voltage	Yellow Green Yellow Orange Red Super Red Bright Red	6.3 6.0 6.0 5.1 6.3	8.4 8.4 8.4 7.2 8.4	V	IF-20mA
IR	Reverse Current	All		10	uA	VR=5V

Absolute Maximum Ratings at TA=25°C.

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

NOTES:

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