



**EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.**

**深圳市超毅光电子有限公司**

**0.39" Single Digit Display.**

**Part Number:**

RL-S3910GDBW  
RL-S3920SBRW

RL-S3910YCBW  
RL-S3920RCBW

RL-S3920OCAW

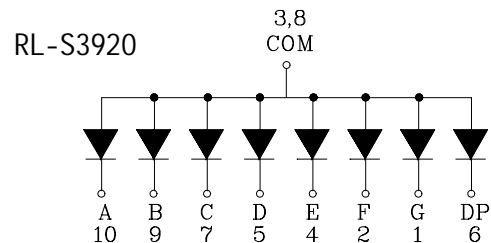
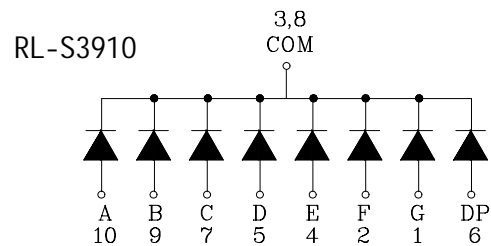
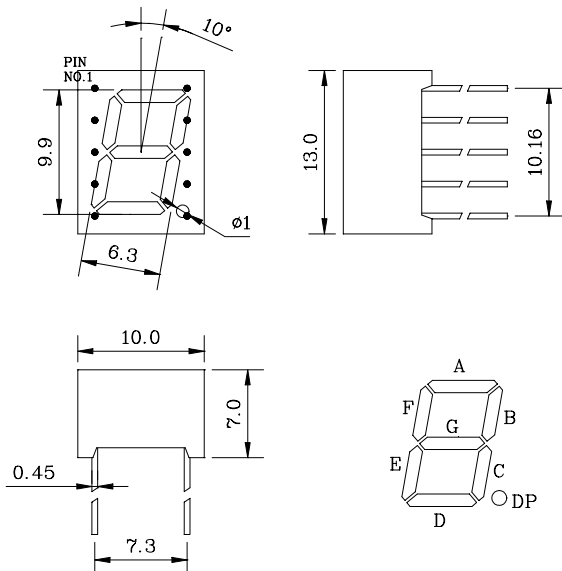
**Features**

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 & Internal Circuit Diagram.**



**Selection Guide**

Part NO.	Chip			Vf (V)			Face Color	C.C Or CA
	Material	Emitted Color	$\Delta p$ (nm)	Typ.	Max	At IF=mA		
RL-S3910GDBW	GaP	Yellow Green	570	900	1350	20	Black	C.C.
RL-S3910YCBW	GaAsP/GaP	Yellow	585	430	650	20	Black	C.C
RL-S3920OCAW	GaAsP/GaP	Orange Red	630	550	820	20	Gray	C.A.
RL-S3920SBRW	GaAlAs	Super Red	660	1240	1860	20	Red	C.A.
RL-S3920RCBW	GaP/GaP	Bight Red	700	90	140	20	Black	C.A.

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**Part Number:**

RL-S3911GDBW  
RL-S3921SBRW

RL-S3911YCBW  
RL-S3921RCBW

RL-S3921OCAW

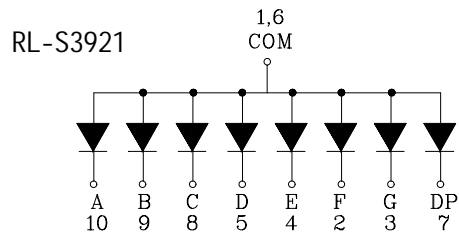
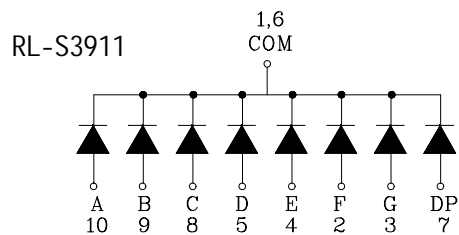
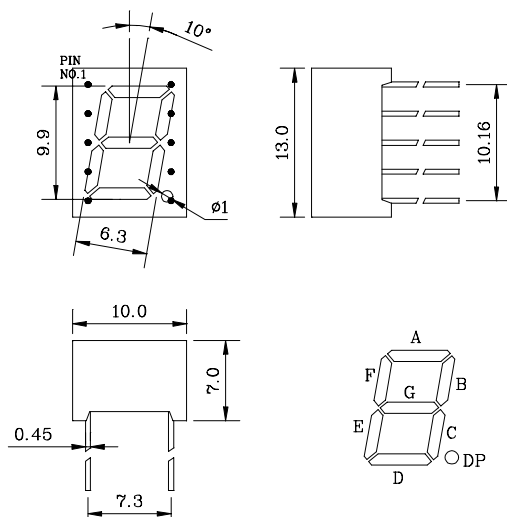
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**Electrical/Optical characteristics at TA=25°C.**

Symbol	Parameter	Device	Type.	Max.	Units	Test Conditions
λ peak	Peak Wavelength	Yellow Green	570		nm	IF-20mA
		Yellow	585			
		Orange Red	630			
		Super Red	660			
		Bright Red	700			
λ D	Dominate Wavelength	Yellow Green	560		nm	IF-20mA
		Yellow	580			
		Orange Red	610			
		Super Red	640			
		Bright Red	690			
Δ λ 1/2	Spectral Line Halfwit	Yellow Green	30		nm	IF-20mA
		Yellow	35			
		Orange Red	45			
		Super Red	20			
		Bright Red	45			
C	Capacitance	Yellow Green	15		pF	VF=0V; f=1MHZ
		Yellow	20			
		Orange Red	15			
		Super Red	45			
		Bright Red	40			
VF	Forward Voltage	Yellow Green	2.1	2.8	V	IF-20mA
		Yellow	2.0	2.8		
		Orange Red	2.0	2.8		
		Super Red	1.7	2.8		
		Bright Red	2.1	2.8		
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.