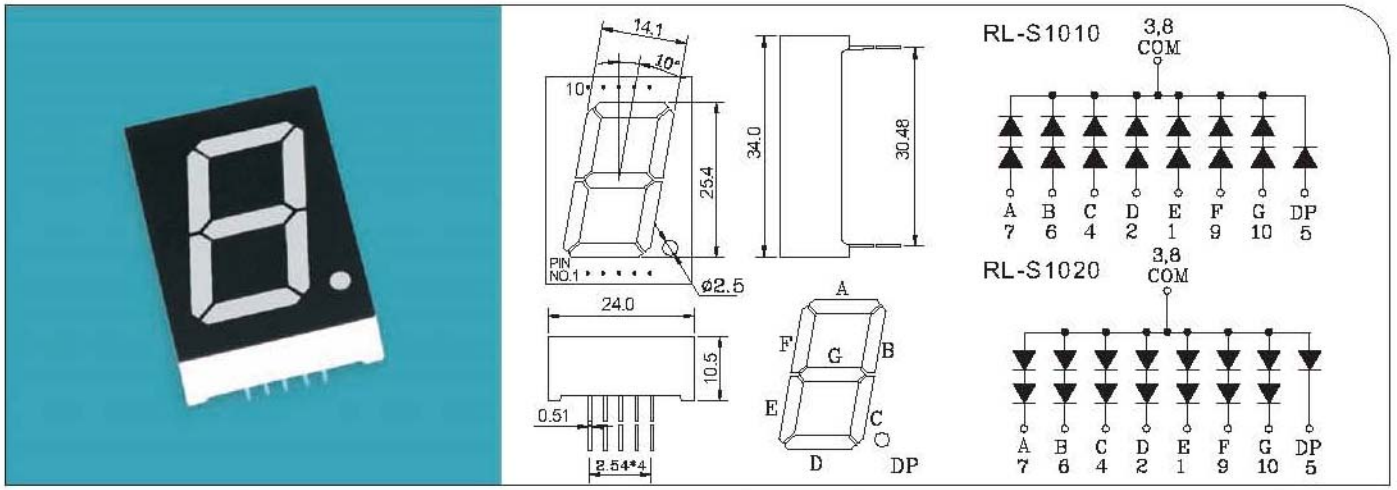
1.0 ” Single Digit Display



Part Number	Chip				Face color	VF(V)			IV(ucd)		C.C. Or C.A.
	Material	Emitted Color	λp(nm)			Min	Max	at IF=mA	Min	Max	
			Min	Max							
RL-S1020SBRW	GaAlAs	Super Red	635	645	Red	3.0	4.8	20	3200	8300	C.A.
RL-S1020OCAW	GaAsP/GaP	Orange	625	635	Gray	3.4	5.6	20	1400	2600	C.A.
RL-S1010YCBW	GaAsP/GaP	Yellow	585	595	Black	3.4	5.6	20	1100	2150	C.C.
RL-S1010GDBW	GaP	Yellow Green	565	575	Black	3.4	5.6	20	2340	7000	C.C.
RL-S1020BDBW	InGaN	Blue	465	475	Black	5.6	7.6	20	4000	5700	C.A.

Absolute Maximum Ratings at Ta=25℃

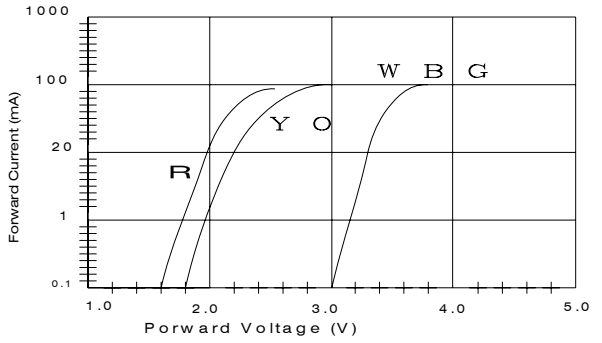
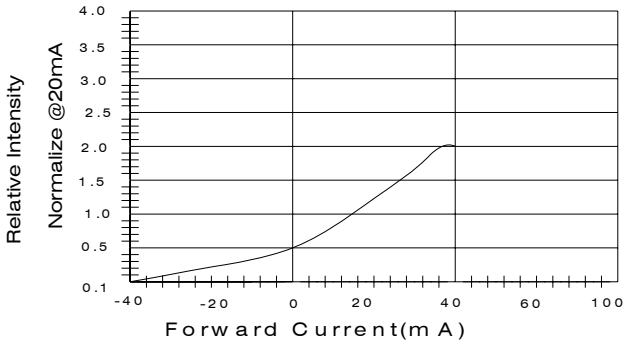
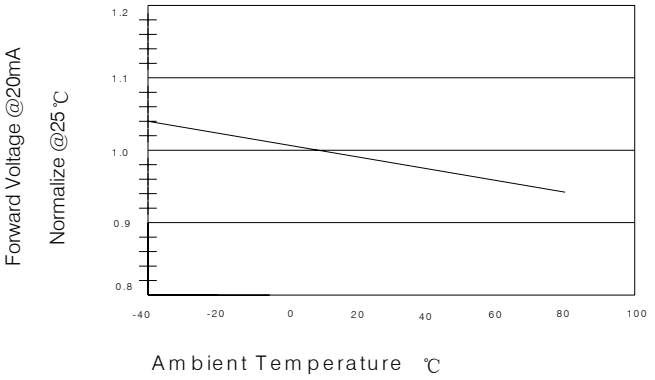
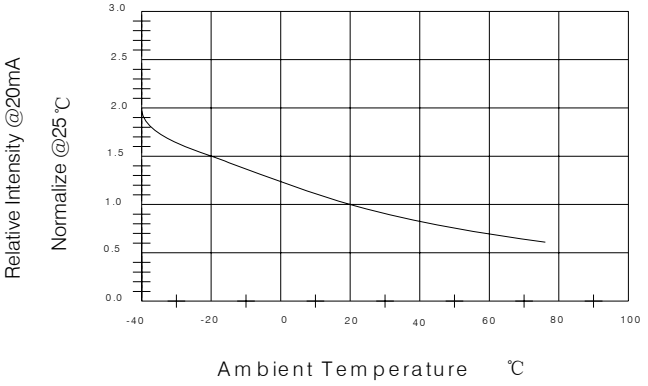
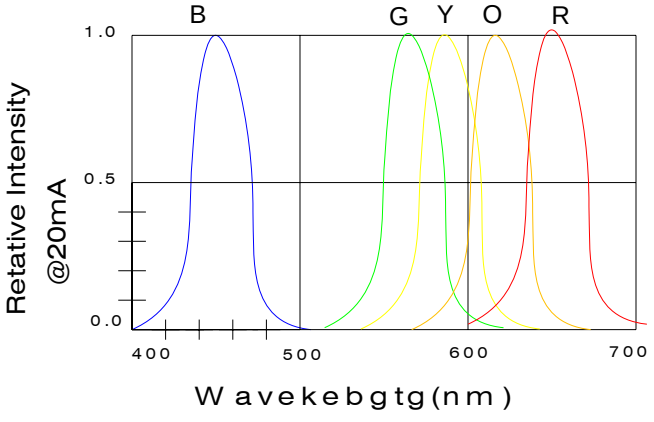
Patameter	Symbol	MAX. Rating	Unit
Power Dissipation	Pd	100	mW
Peak forward current (10μs Pulse)	IFM	100	mA
Reverse Current	IR	100	μA
Continuous Forward Current	IF	10~20	mA
Operating Temperature	Topr	-40~+85	℃
Storage Temperature	Tstg	-40~+85	℃
Lead Soldering Temperature: 260℃For 5 SEC			

FEATURES:

- Low power consumption
- Low current operation
- Excellent character apperance
- Easy mounting on P.C. boards or sockets
- I.C. compatible
- Mechanically rugged
- Standard:gray face,white segment
- RoHs compliant
- Various colors and lens types available

Note: 1.Absolute maximum ratings Ta=25℃.
2.Tolerance of measurement of forward voltage ± 0.1V.
3.Tolerance of measurement of peak Wavelength ± 2.0nm.
4.Tolerance of measurement of luminous intensity ± 15%.

Reliability Test and Test Items And Result

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Operating Life	Ta=25℃, IF=20mA	1000 Hrs	76	0/1
2	Thermal Shock	-10℃(5min)→(10sec) →+100℃(5min)	100 Cycles	76	0/1
3	Temperature Cycle	-40℃(30min) →(5min)→+85℃ (30min)	100 Cycles	76	0/1
4	High Temp./ High Humi. Test	85℃/85%RH	1000 Hrs	76	0/1
5	High Temperature Storage	Ta=100℃	1000 Hrs	76	0/1
6	Low Temperature Storage	Ta= - 40℃	1000 Hrs	76	0/1
7	Soldering Heat	260℃±5℃	5 Seconds	76	0/1

Typical Electrical / Optical Characteristics Curves
25℃ Ambient Temperature Unless Otherwise Noted)