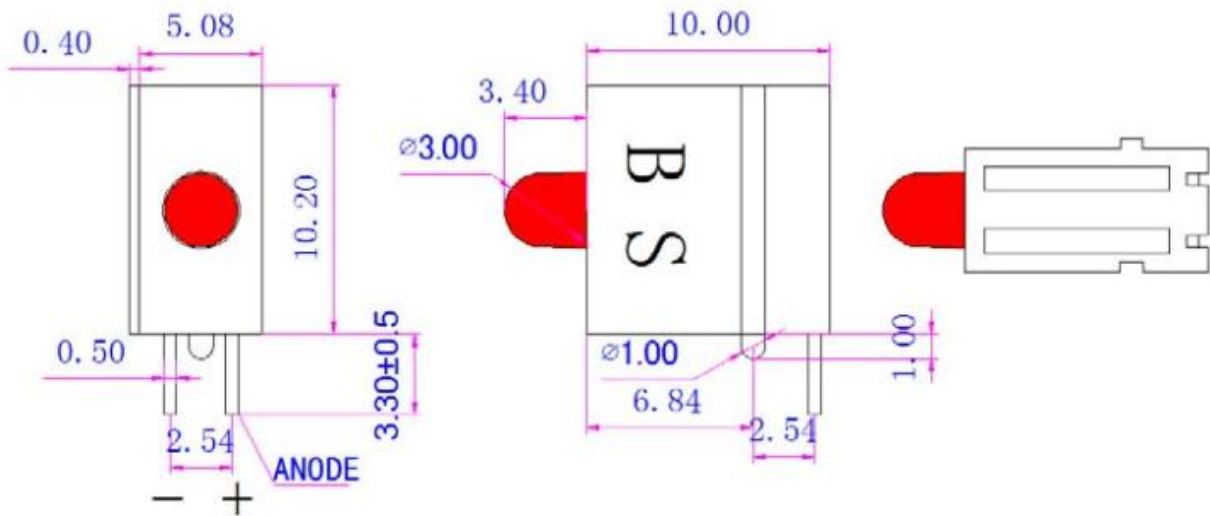


**Dimensions:**

**Notes:**

All dimensions are in millimeters (inches).  
 Tolerance is  $\pm 0.25$  (0.01") unless otherwise noted.  
 Specifications are subject to change without notice

Part No.	Emitted Color	Lens Color	Iv (mcd) (IF=20mA)			Viewing Angle (2θ <sub>1/2</sub> )
			Min.	Typ.	Max	
SE-1LUR32D-RV	Red	Red Diffused	-	60	-	60°

**Absolute Maximum Ratings (Ta=25°C)**

Item	Symbol	Maximum	Unit
Power Dissipation	PD	78	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	90	mA
Continuous Forward Current	IFmax	30	mA
Reverse Voltage	VR	5	V
Electrostatic discharge	ESD	1000	V
Operating Temperature Range	Topr / Tstg	-40 to +85	
Storage Temperature Range	Topr / Tstg	-40 to +100	

**Electrical / Optical Characteristics (Ta=25°C)**

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	$\lambda_p$	-	640	-	nm	IF=20mA
Dominant Wavelength	$\lambda_d$	-	630	-	nm	IF=20mA
Spectral Line Coordinates	$\Delta\lambda$	-	20	-	nm	IF=20mA
Forward Voltage	VF	-	2.0	2.6	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

Typical Electro-Optical Characteristic Curve

FIG. 1 Forward Current Vs. Forward Voltage

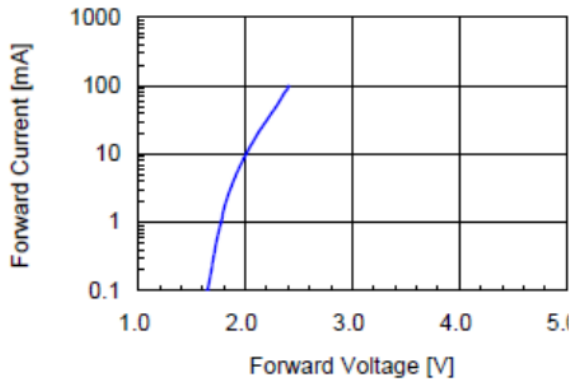


FIG. 2 Relative Intensity Vs. Forward Current

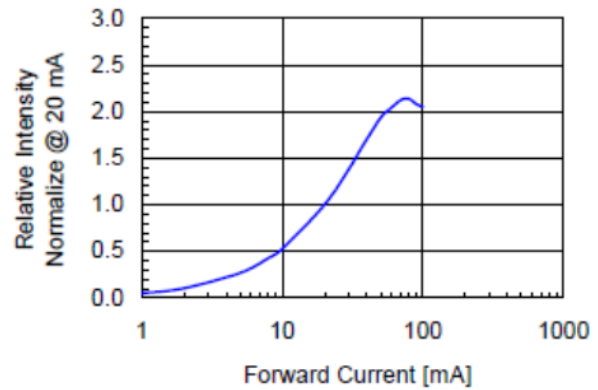


FIG. 3 Forward Voltage Vs. Temperature

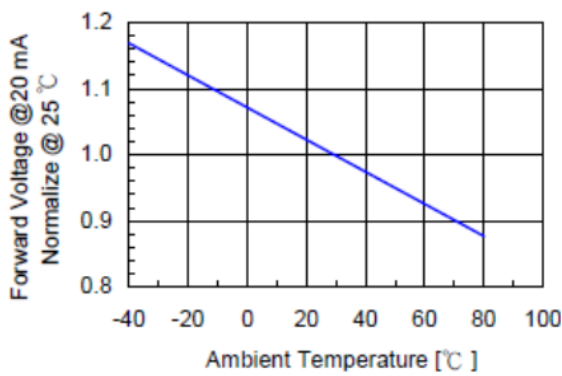


FIG. 4 Relative Intensity Vs. Temperature

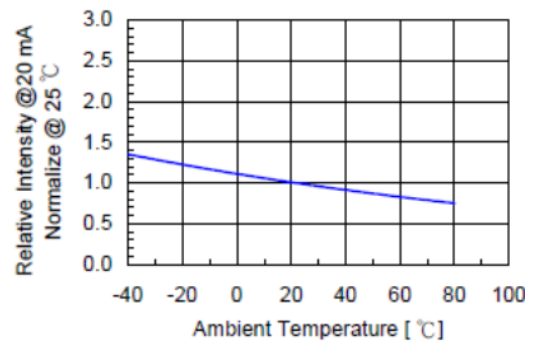
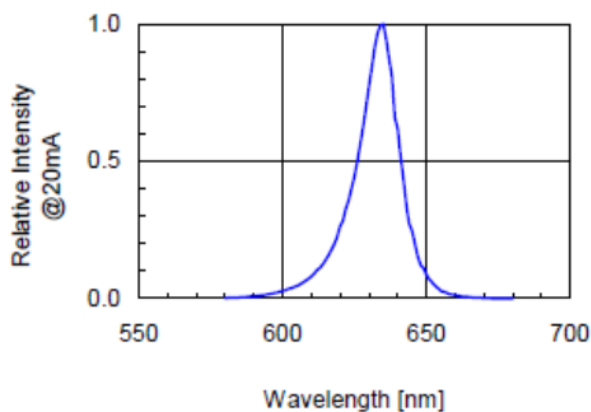
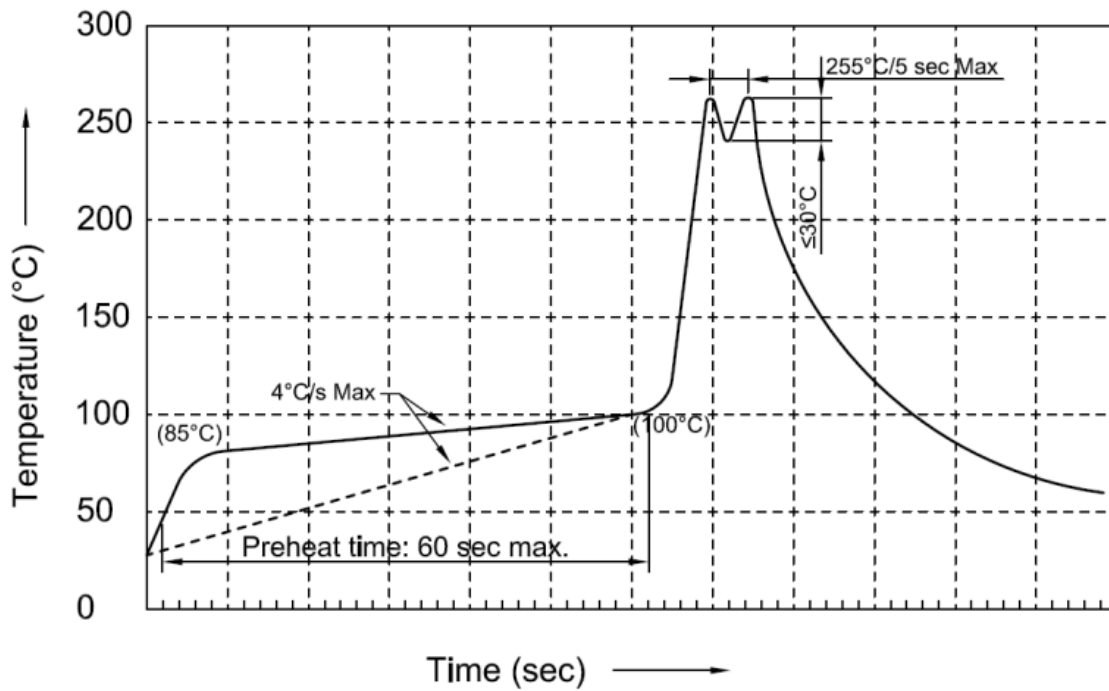


FIG. 5 Relative Intensity Vs. Wavelength



**Recommended Wave Soldering Profiles:**



**Notes:**

1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C.
  2. Peak wave soldering temperature between 245-255°C for 3 sec (5 sec max).
  3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
  4. Fixtures should not apply stress on the component when mounting and soldering process.
- More than one wave soldering is not allowed.