
Selection Guide

Part No.	Chip • •		Lens Color	Iv(mcd)(If=20mA)			Viewing Angle (2θ ^{1/2})
	Raw Material	Emitted Color		MIN	TYP	MAX	
SE-LED1.81550-R5	AlGaInP	Red	Water Clear	100	150	-	50°

Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	P _D	65	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	90	mA
Continuous Forward Current	I _{Fmax}	30	mA
Reverse Voltage	V _R	5	V
Capacitance	C	20	pF
Operating / Storage Temperature Range	Topr / Tstg	-40°C to +85°C	
Lead Solder Temperature	Tsol	260°C for 3 seconds	

Electrical / Optical Characteristics(Ta=25C°)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ _p	-	645	-	nm	I _F =20mA
Dominant Wavelength	λ _d	617	627		nm	I _F =20mA
Forward Voltage	V _F	1.7	2.0	2.5	V	I _F =20mA
Reverse Current	I _R	-	-	10	uA	V _R =5V

NOTES:

1. All dimensions are in millimeter(inch);
2. Tolerance is ±0.25mm(0.01") especially other specified; Luminous intensity tolerance is ±10%;
3. Dominant Emission Wavelength tolerance is ±5%; Specifications are subject to change without notice

■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

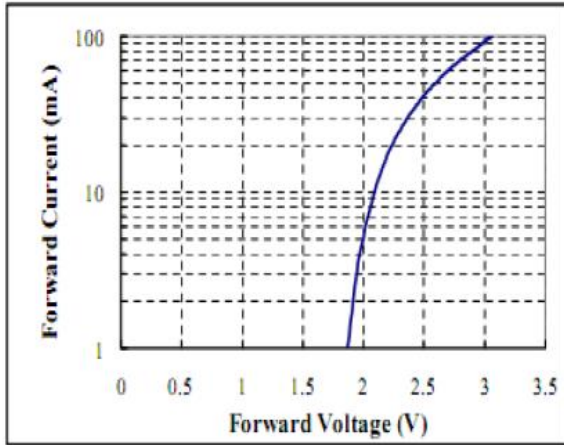


FIG. 2 Relative Intensity Vs. Forward Current

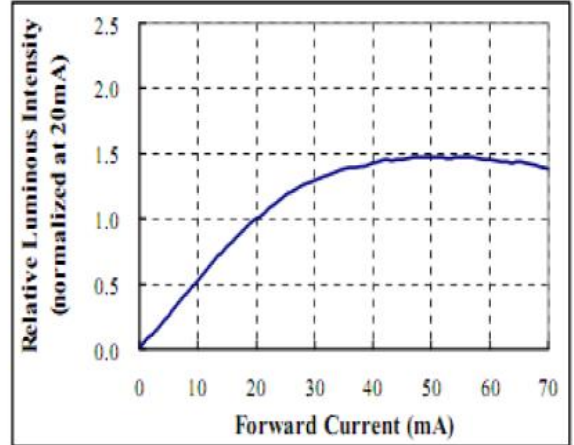


FIG. 3 Forward Voltage Vs. Temperature

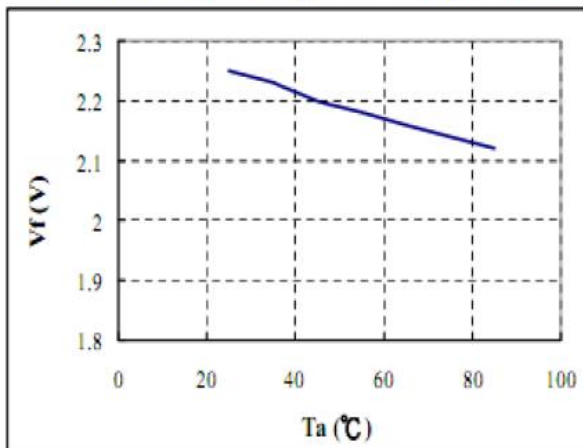


FIG. 4 Relative Intensity Vs. Temperature

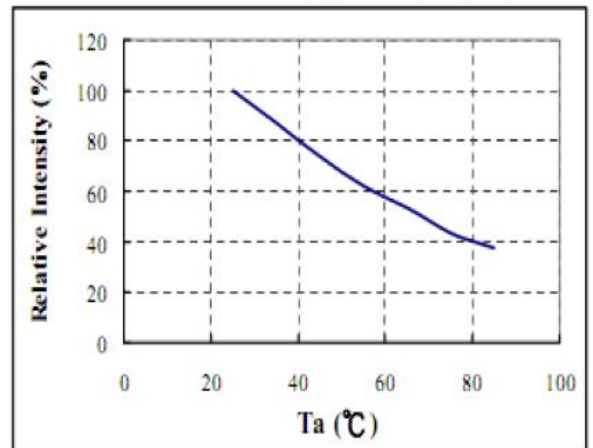


FIG. 5 Relative Intensity Vs. Wavelength

