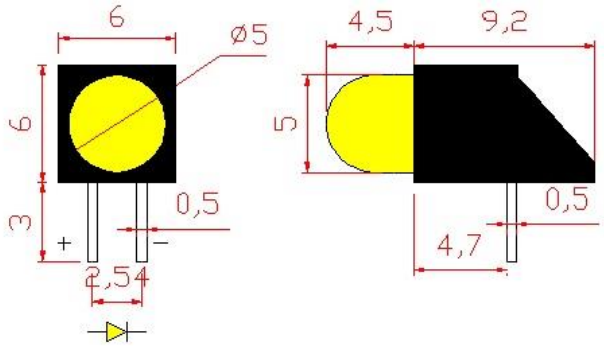
Pb-free



Selection Guide

Part No.	Chip:		Lens Color	Iv(mcd)(IF=20mA)			Viewing Angle (2θ½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
SE-1B5-YD5	AlGaInP	Yellow	Yellow Diffused	50	100		60°

Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	75	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
Capacitance	C	95	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	λp	-	596	-	nm	IF=20mA
Dominant Wavelength	λd	585	590	595	nm	IF=20mA
Forward Voltage	VF	1.8	2.2	2.6	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

NOTES:

1. All dimensions are in millimeter(inch);
2. Tolerance is ±0.25mm(0.01″) unless 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

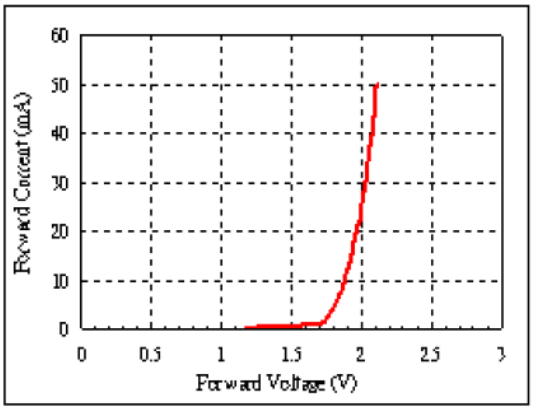


FIG. 2 Relative Intensity Vs. Forward Current

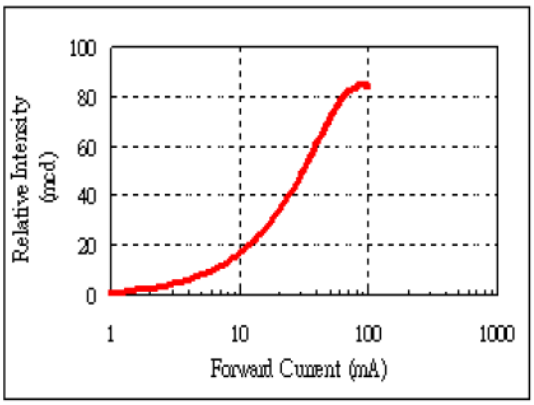


FIG. 3 Forward Voltage Vs. Temperature

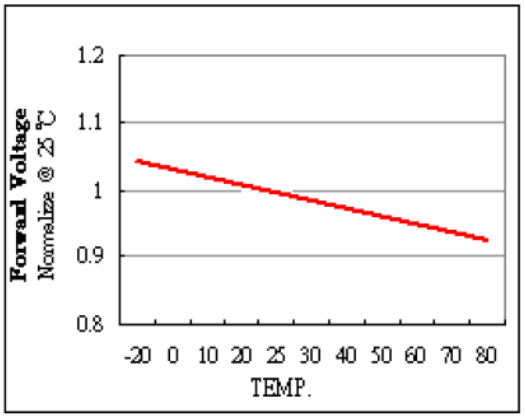


FIG. 4 Relative Intensity Vs. Temperature

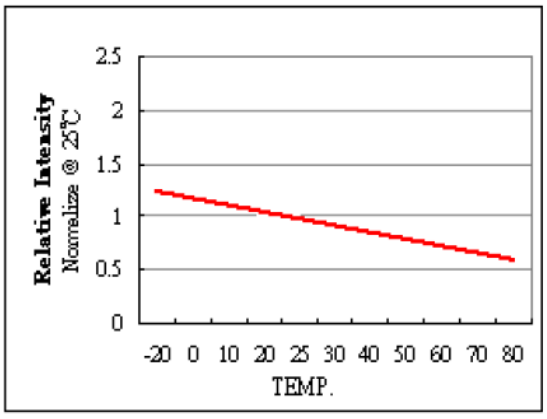


FIG. 5 Relative Intensity Vs. Wavelength