

Selection Guide

Part No.	Dice	Lens Type	I _v (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	θ1/2
L-53HDLK	BRIGHT RED (GaP)	RED DIFFUSED	2	5	60°
L-53GDLK	GREEN (GaP)	GREEN DIFFUSED	5	20	60°
L-53YDLK	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	5	20	60°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

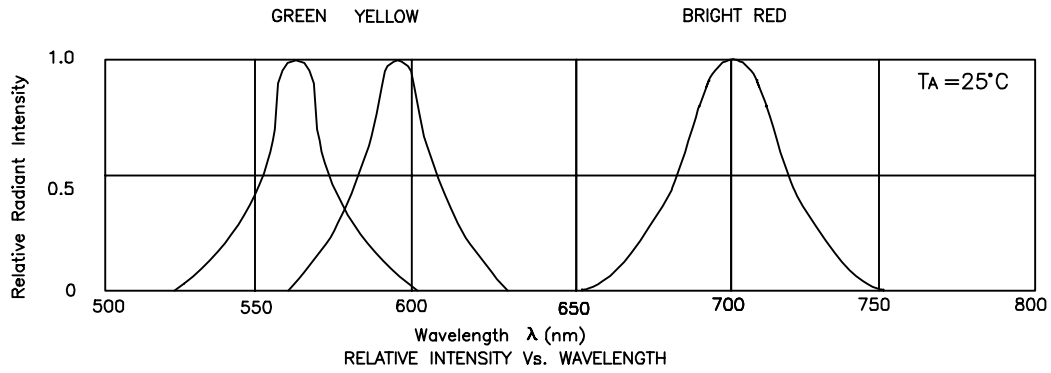
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Bright Red Green Yellow	700 565 590		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Bright Red Green Yellow	45 30 35		nm	IF=20mA
C	Capacitance	Bright Red Green Yellow	40 45 10		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Bright Red Green Yellow	2.0 2.2 2.1	2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All	10		μA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

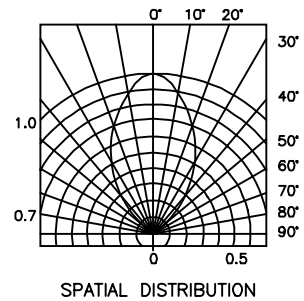
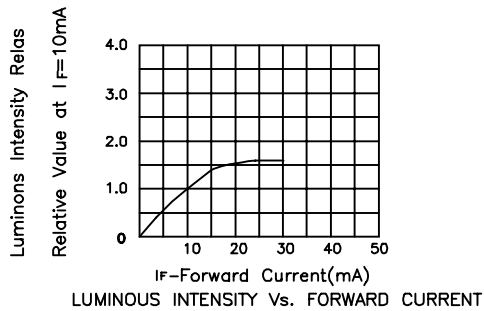
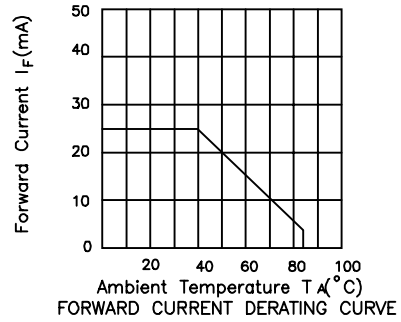
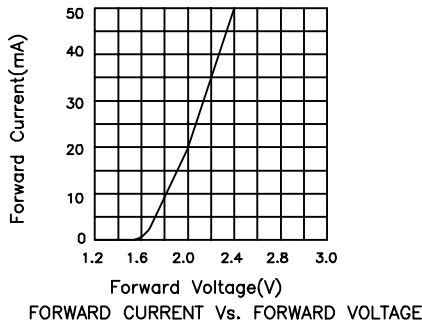
Parameter	Bright Red	Green	Yellow	Units
Power dissipation	120	105	105	mW
DC Forward Current	25	25	30	mA
Peak Forward Current [1]	150	150	150	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			
Lead Soldering Temperature [2]	260°C For 5 Seconds			

Notes:

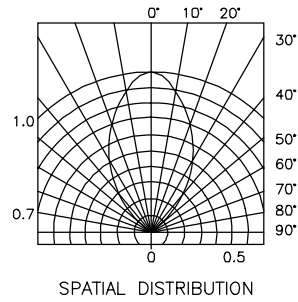
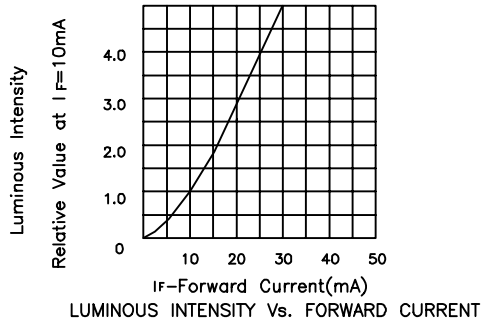
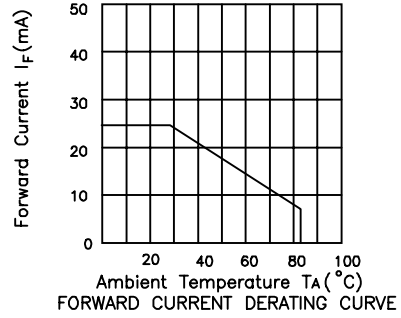
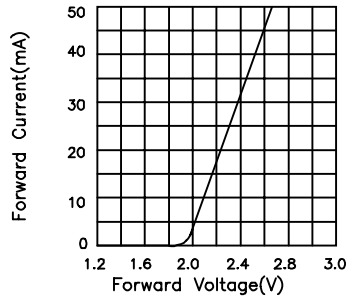
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



Bright Red L-53HDLK



Green L-53GDLK



Yellow L-53YDLK

