

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L1773HD	BRIGHT RED (GaP)	RED DIFFUSED	0.8	2	100°
L1773ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	5	10	100°
L1773ED	ORANGE (GaAsP/GaP)	ORANGE DIFFUSED	5	10	100°
L1773GD	GREEN (GaP)	GREEN DIFFUSED	3	10	100°
L1773YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	3	8	100°
L1773ND	PURE ORANGE (GaAsP/ GaP)	ORANGE DIFFUSED	5	8	100°

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

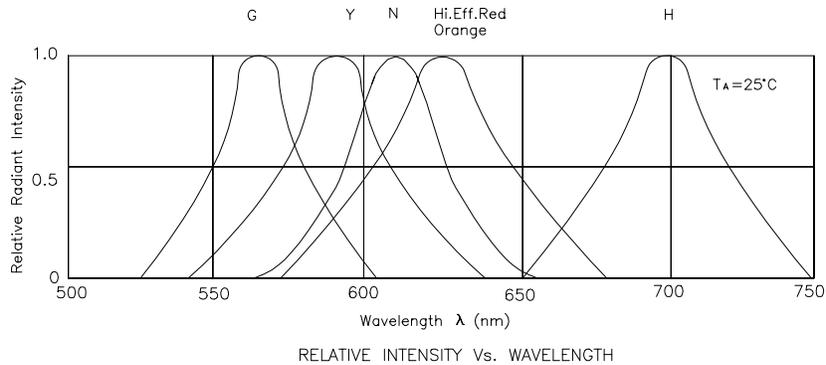
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Bright Red High Efficiency Red Orange Green Yellow Pure Orange	700 627 627 565 590 607		nm	IF=20mA
λ _D	Dominate Wavelength	Bright Red High Efficiency Red Orange Green Yellow Pure Orange	660 625 625 568 588 610		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Bright Red High Efficiency Red Orange Green Yellow Pure Orange	45 45 45 30 35 35		nm	IF=20mA
C	Capacitance	Bright Red High Efficiency Red Orange Green Yellow Pure Orange	40 15 15 15 20 15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Bright Red High Efficiency Red Orange Green Yellow Pure Orange	2.25 2.0 2.0 2.2 2.1 2.05	2.5 2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	μA	V _R = 5V

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

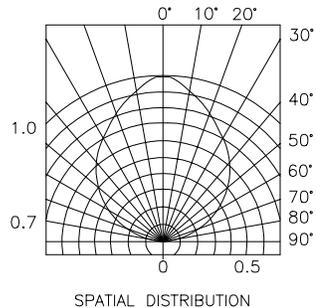
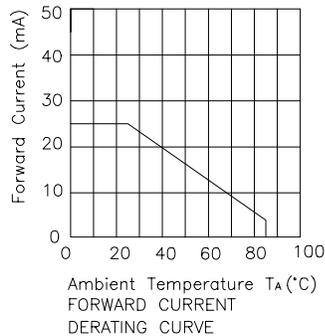
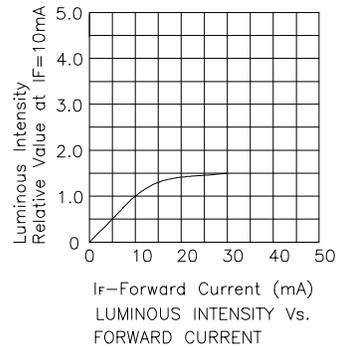
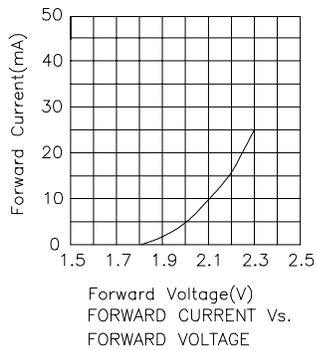
Parameter	Bright Red	High Efficiency Red	Orange	Green	Yellow	Pure Orange	Units
Power dissipation	120	105	105	105	105	105	mW
DC Forward Current	25	30	30	25	30	30	mA
Peak Forward Current [1]	120	160	160	140	140	145	mA
Reverse Voltage	5	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C						
Lead Solder Temperature [2]	260°C For 5 Seconds						

Notes:

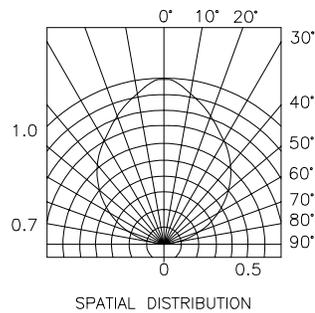
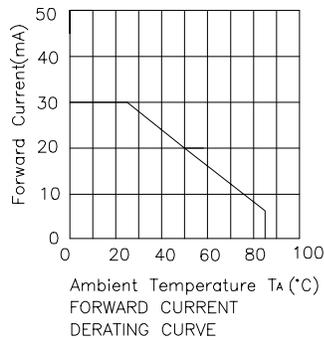
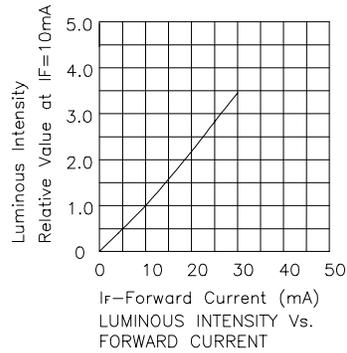
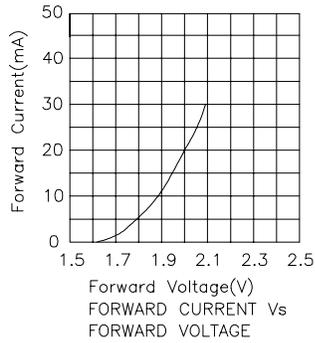
- 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



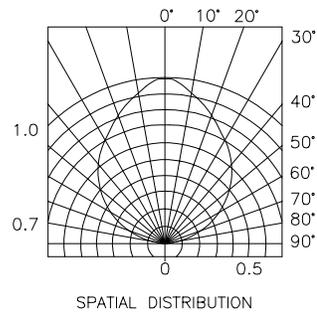
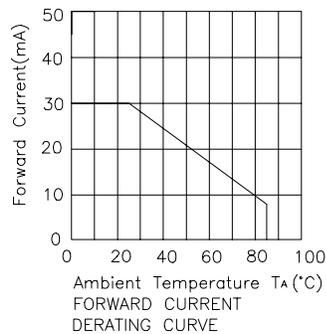
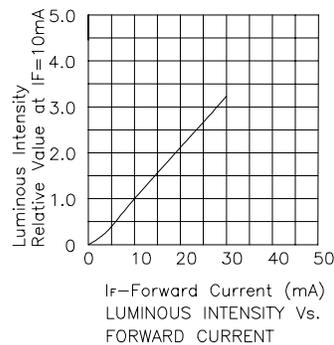
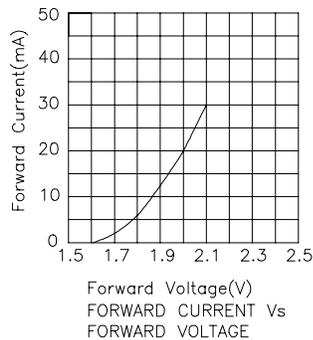
Bright Red L1773HD



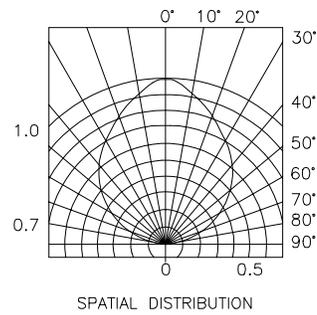
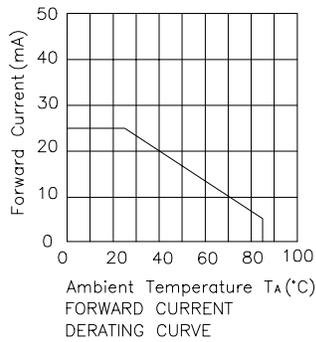
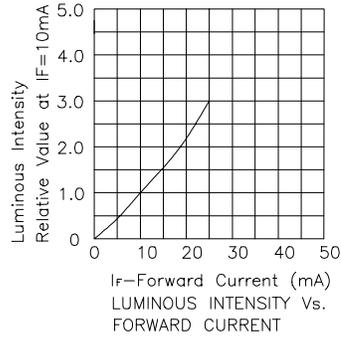
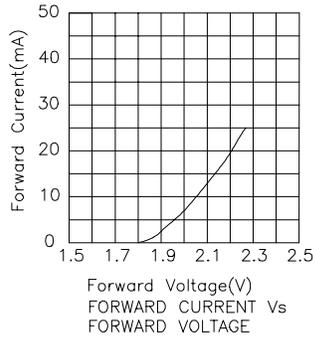
High Efficiency Red L1773ID



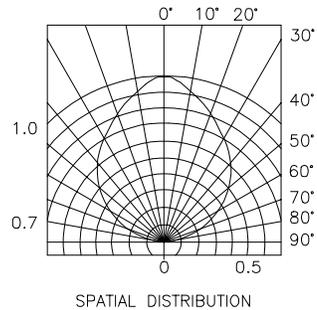
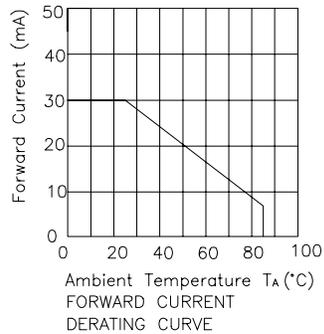
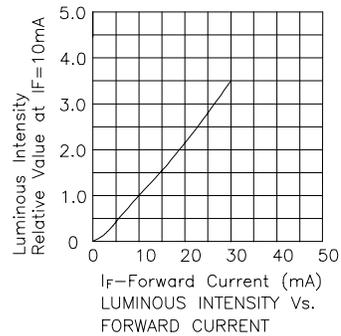
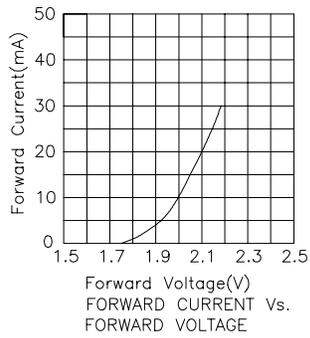
Orange L1773ED



Green L1773GD



Yellow L1773YD



Pure Orange L1773ND

