

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA *20mA		Viewing Angle
			Min.	Typ.	
L113HDTTNR254 L113HDTTNR5/86	BRIGHT RED (GaP)	RED DIFFUSED	0.5	1	110°
L113IDTTNR254 L113IDTTNR5/86	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	3	5	110°
L113GDTTNR254 L113GDTTNR5/86	GREEN (GaP)	GREEN DIFFUSED	2	5	110°
L113YDTTNR254 L113YDTTNR5/86	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1	4	110°
L113SRDTTNR254 L113SRDTTNR5/86	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	*40	*80	110°

Note:

1. $\theta_{1/2}$ 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

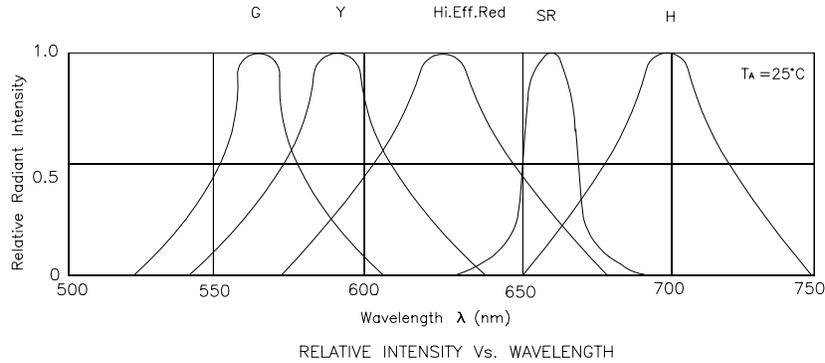
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Bright Red High Efficiency Red Green Yellow Super Bright Red	700 627 565 590 660		nm	IF=20mA
λ_D	Dominate Wavelength	Bright Red High Efficiency Red Green Yellow Super Bright Red	660 625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow Super Bright Red	45 45 30 35 20		nm	IF=20mA
C	Capacitance	Bright Red High Efficiency Red Green Yellow Super Bright Red	40 15 15 20 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow Super Bright Red	2.25 2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

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

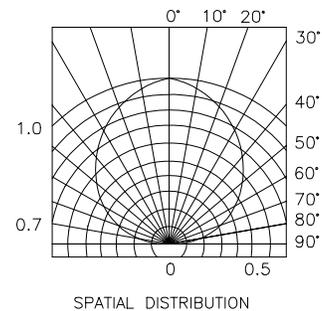
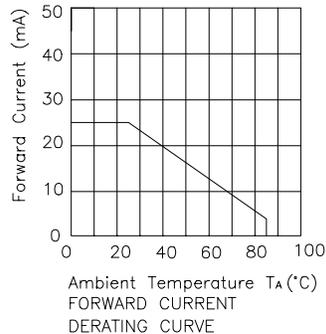
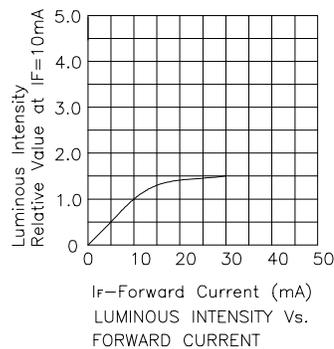
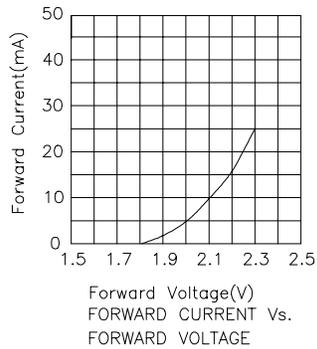
Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	120	105	105	105	100	mW
DC Forward Current	25	30	25	30	30	mA
Peak Forward Current [1]	120	160	140	140	155	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					
Lead Solder Temperature [2]	260°C For 5 Seconds					

Notes:

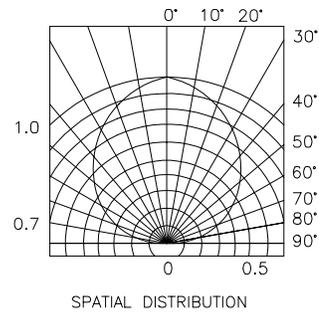
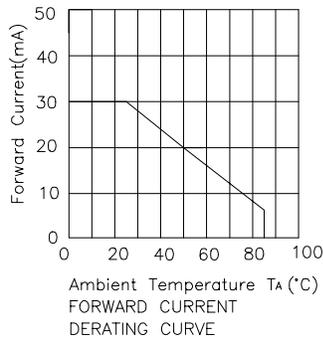
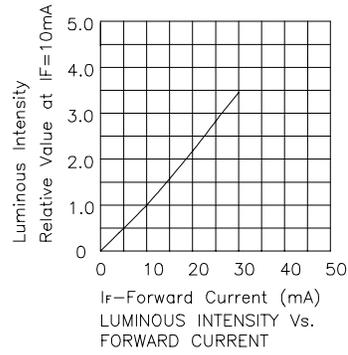
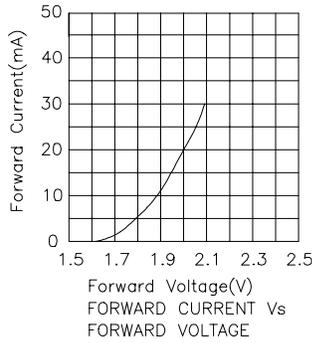
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



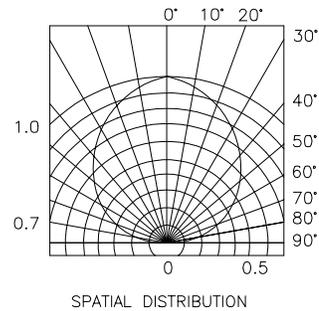
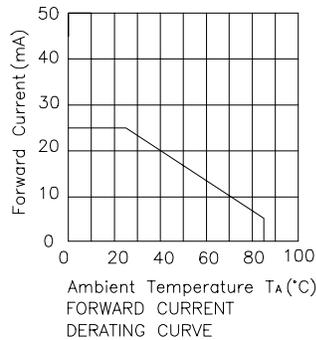
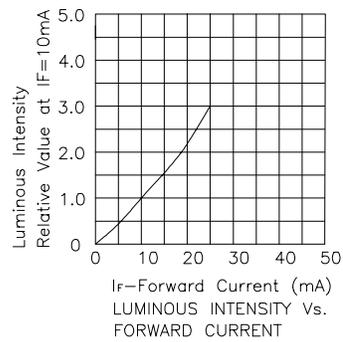
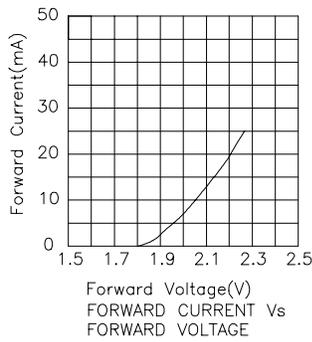
Bright Red L113HDTTNR254, L113HDTTNR5/86



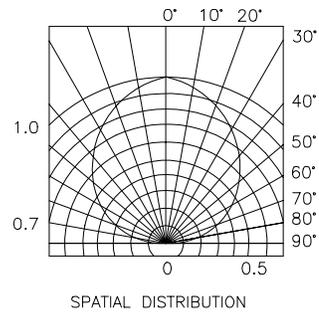
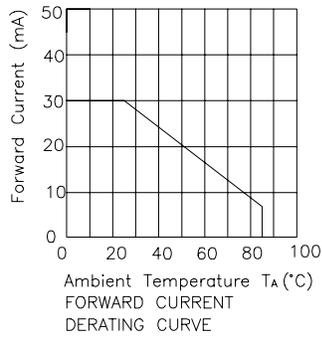
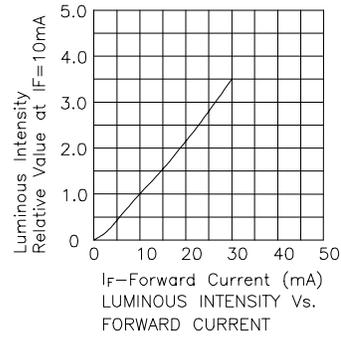
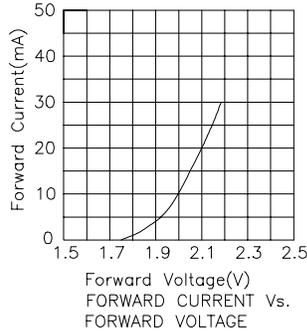
High Efficiency Red L113IDTTNR254, L113IDTTNR5/86



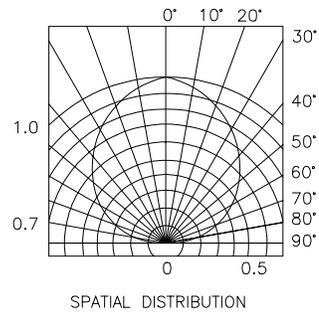
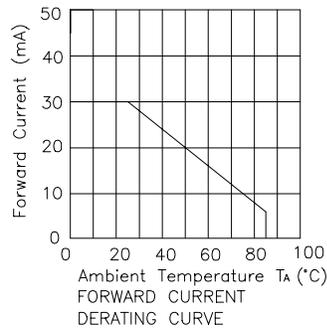
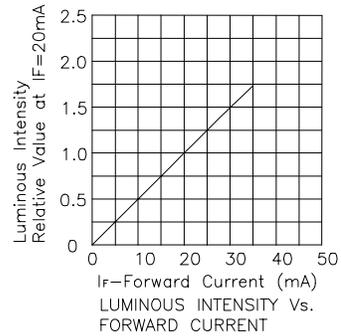
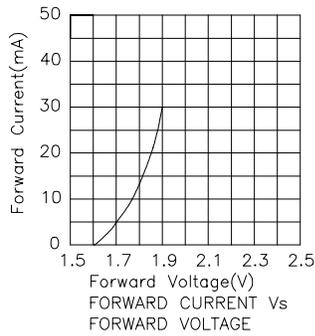
Green L113GDTTNR254, L113GDTTNR5/86



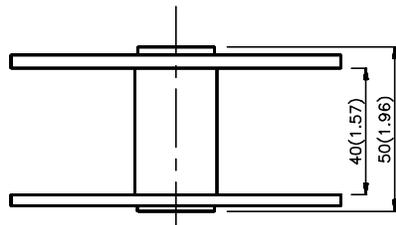
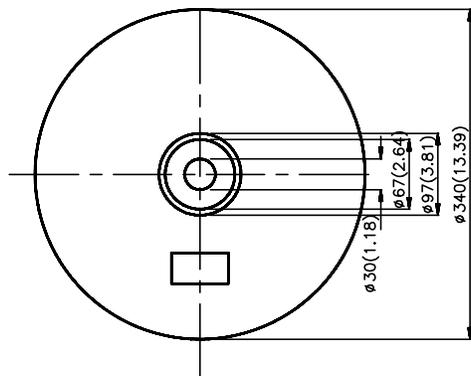
Yellow L113YDTTNR254, L113ADTTNR5/86



Super Bright Red L113SRD TTNR254, L113SRD TTNR5/86



Reel Dimensions



ANODE LEAD
LEAVES THE REEL FIRST

