L-1553HDT BRIGHT RED	L-1553GDT GREEN
L-1553IDT HIGH EFFICIENCY RED	L-1553EDT ORANGE
L-1553SRDT SUPER BRIGHT RED	L-1553YDT YELLOW

Features

- ●LOW POWER CONSUMPTION.
- ●ULTRA BRIGHTNESS IS AVAILABLE.
- ●WIDE VIEWING ANGLE.
- ●RELIABLE AND RUGGED.
- ●EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- ●IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- ●LONG LIFE - SOLID STATE RELIABILITY.

Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

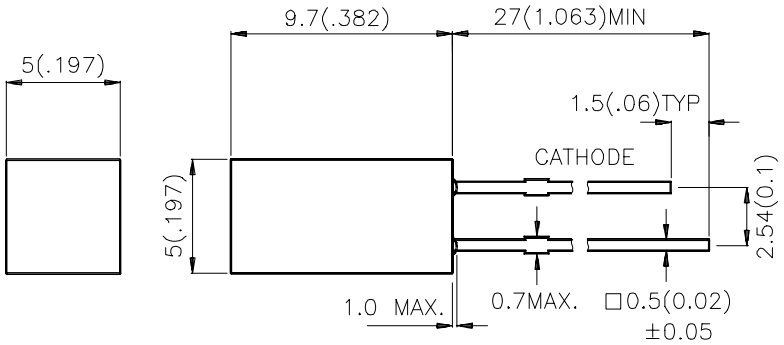
The High Efficiency Red and Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA *20mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-1553HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.5	1	110°
L-1553IDT	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	3	8	110°
L-1553EDT	ORANGE (GaAsP/GaP)	ORANGE DIFFUSED	3	8	110°
L-1553GDT	GREEN (GaP)	GREEN DIFFUSED	1	5	110°
L-1553YDT	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1	5	110°
L-1553SRDT	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	*36	*80	110°

Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. * Luminous intensity with asterisk is measured at 20mA.

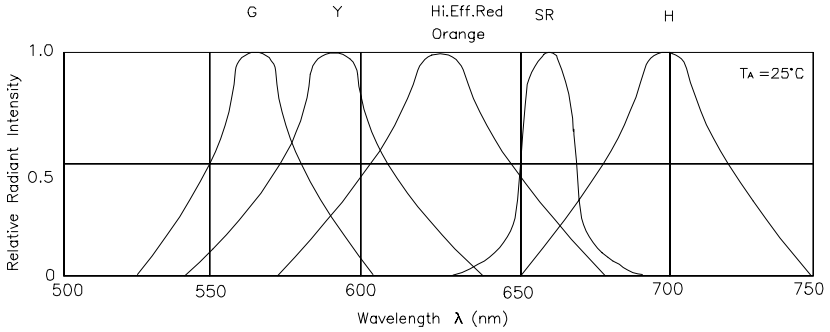
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red	700 627 627 565 590 660		nm	IF=20mA
λ D	Dominate Wavelength	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red	660 625 625 568 588 640		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red	45 45 45 30 35 20		nm	IF=20mA
C	Capacitance	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red	40 15 15 15 20 45		pF	VF=0V;f=1MHz
V_F	Forward Voltage	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red	2.25 2.0 2.0 2.2 2.1 1.85	2.5 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°C

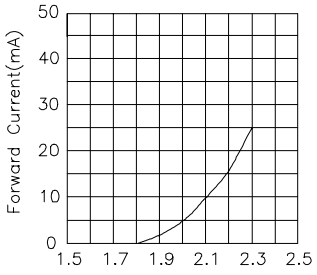
Parameter	Bright Red	High Efficiency Red	Orange	Green	Yellow	Super Bright Red	Units
Power dissipation	120	105	105	105	105	100	mW
DC Forward Current	25	30	30	25	30	30	mA
Peak Forward Current [1]	120	160	160	140	140	155	mA
Reverse Voltage	5	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					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

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

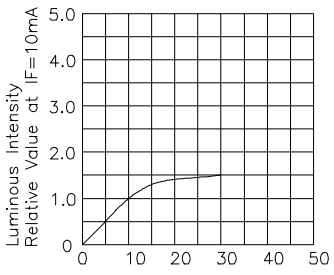


RELATIVE INTENSITY Vs. WAVELENGTH

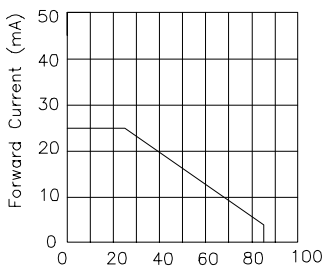
Bright Red L-1553HDT



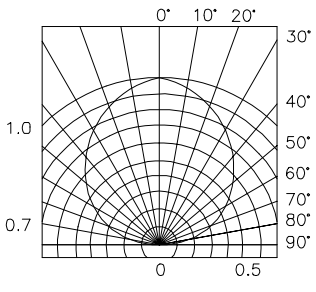
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



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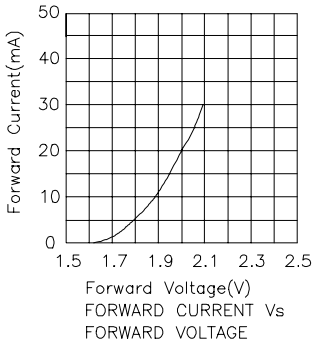
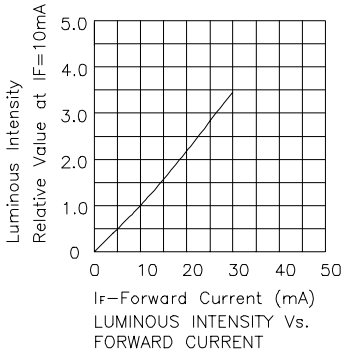
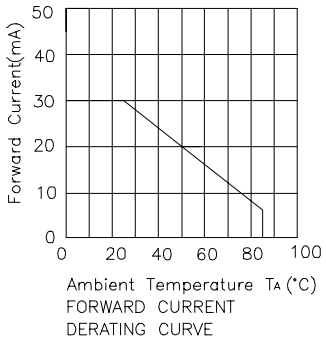
High Efficiency Red L-1553IDT



FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



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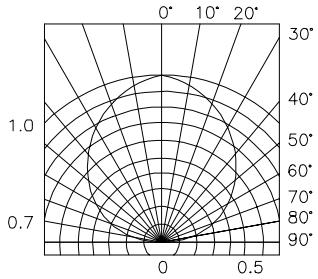
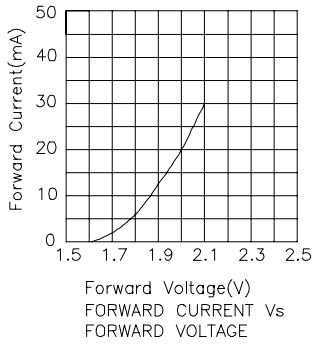
DERATING CURVE



SPATIAL DISTRIBUTION

Orange L-1553EDT



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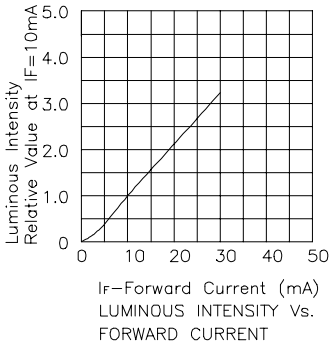
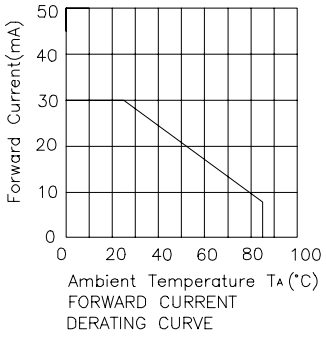
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



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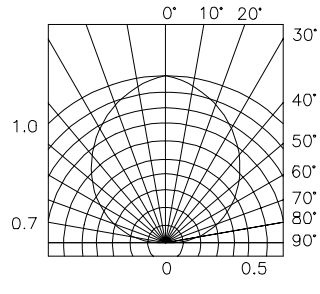
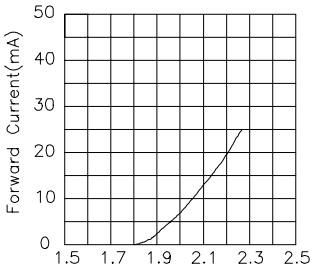
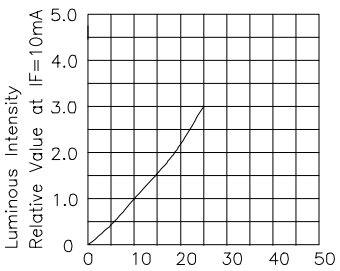


SPATIAL DISTRIBUTION

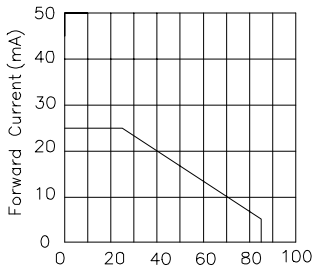
Green L-1553GDT



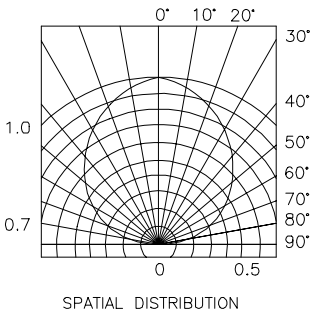
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



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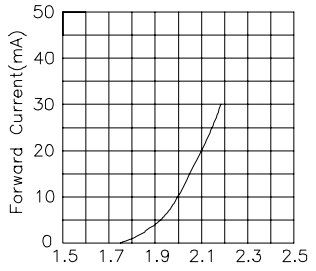
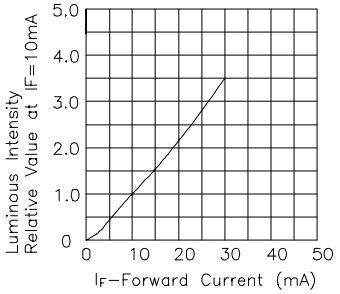
Yellow L-1553YDT



FORWARD CURRENT Vs.
FORWARD VOLTAGE



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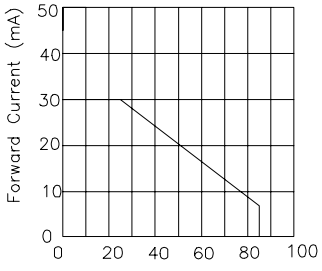

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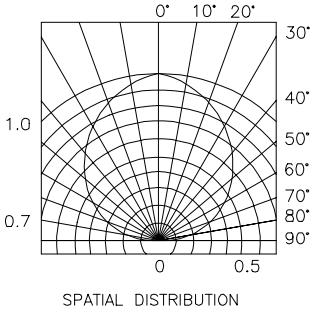

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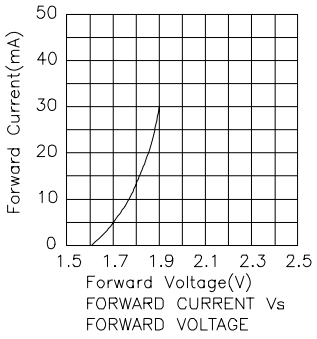
Super Bright Red L-1553SRDT



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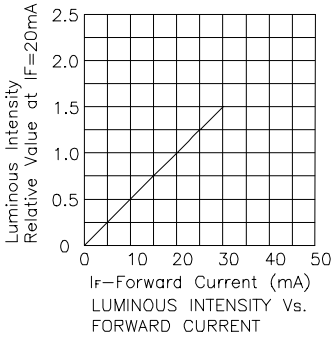
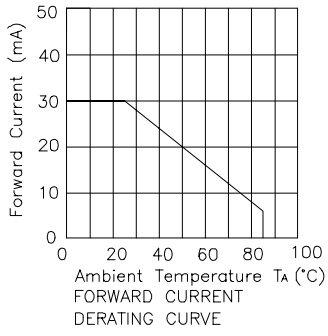
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



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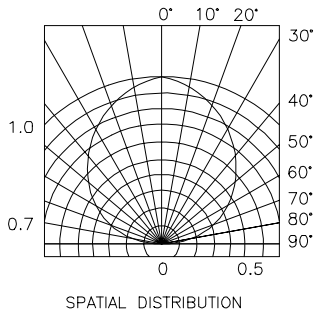

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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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http://moschip.ru/get-element

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9