

5x5mm SQUARE TOP LED LAMPS

L-1553HDT BRIGHT RED
L-1553GDT GREEN
L-1553IDT HIGH EFFICIENCY RED
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.

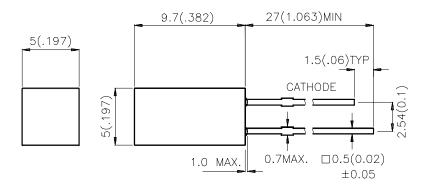
The High Efficiency Red and Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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 $\pm 0.25 (0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

SPEC NO: KDA0294 APPROVED: J.LU REV NO: V.1 CHECKED: DATE: SEP/16/2001 DRAWN: J.X.FU PAGE: 1 OF 6



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10 mA *20mA		Viewing Angle
Turt No.	5.00	Lone Type	Min.	Тур.	201/2
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. θ 1/2 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	Тур.	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
λD	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
С	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

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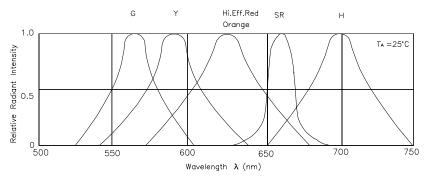
DATE: SEP/16/2001 DRAWN: J.X.FU

PAGE: 2 OF 6

Absolute Maximum Ratings at T_A=25°C

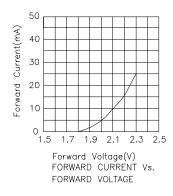
Parameter	Bright Red	High Efficiency Red	Orange	Green	Yellow	Super Bright Red	Units
Power dissipation	120	105	105	105	105	100	mW
DC Forward Current	25	30	30	25	30	30	mA
Peak Forward Current [1]	120	160	160	140	140	155	mA
Reverse Voltage	5	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					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

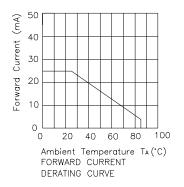
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 4mm below package base.

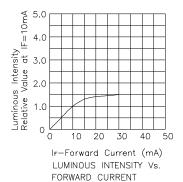


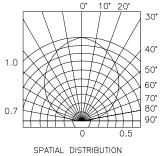
RELATIVE INTENSITY Vs. WAVELENGTH

Bright Red L-1553HDT





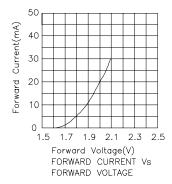


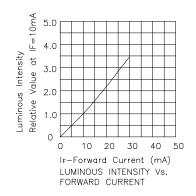


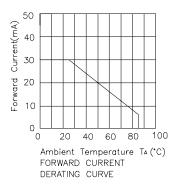
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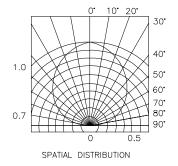
PAGE: 3 OF 6

High Efficiency Red L-1553IDT

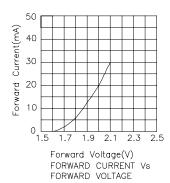


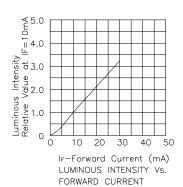


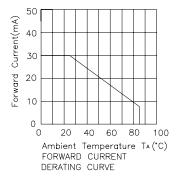


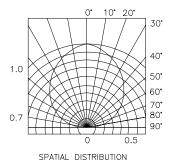


Orange L-1553EDT





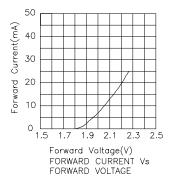


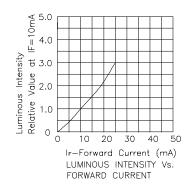


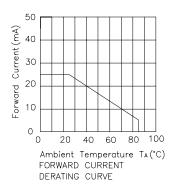
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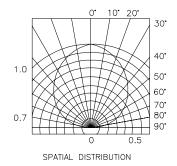
PAGE: 4 OF 6

Green L-1553GDT

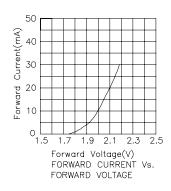


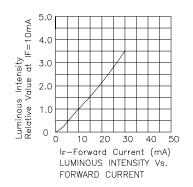


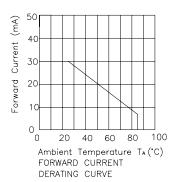


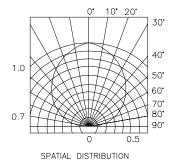


Yellow L-1553YDT



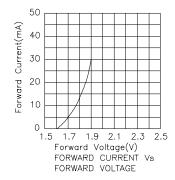


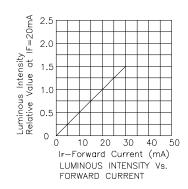


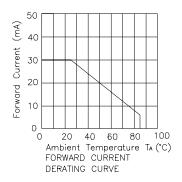


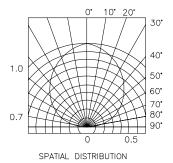
SPEC NO: KDA0294 APPROVED: J.LU REV NO: V.1 CHECKED: DATE: SEP/16/2001 DRAWN: J.X.FU PAGE: 5 OF 6

Super Bright Red L-1553SRDT









DATE: SEP/16/2001 DRAWN: J.X.FU PAGE: 6 OF 6



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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