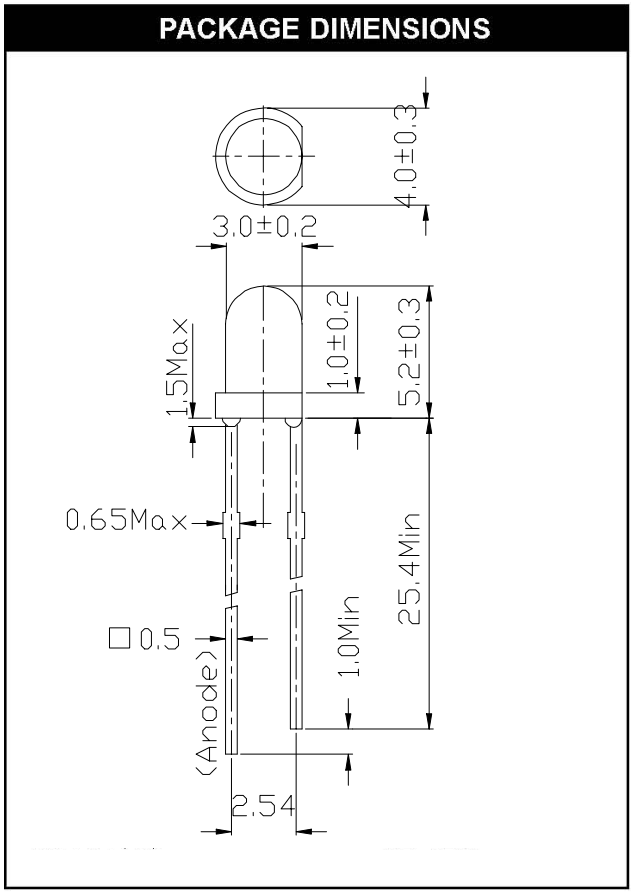
LOW PROFILE T-1
SOLID STATE LAMPS

RED DIFFUSED	MV5077C	YELLOW DIFFUSED	MV5377C
GREEN DIFFUSED	MV5477C	HER DIFFUSED	MV5777C

PACKAGE DIMENSIONS



FEATURES

- Copper leads
- Solid-state reliability

DESCRIPTION

These solid state indicators offer a variety of color selection. The High Efficiency Red, Green and Yellow devices are made with a gallium arsenide phosphide LED on gallium phosphide substrate. All are encapsulated in epoxy packages. Their low profile, small size (approximately T-1 size), good viewing angle, and small square leads contribute to their versatility as all purpose indicators.

EVERLIGHT

LOW PROFILE T-1
SOLID STATE LAMPS

ABSOLUTE MAXIMUM RATING (T_A =25°C Unless Otherwise Specified)

Parameter	Symbol	Rating	Units
Power Dissipation Derate linearly from 25°C	P_D	105 -1.14	mW mW/°C
Continuous Forward Current (MV5377C)	I_F	35	mA
Peak Forward Current - (µsec pulse 0.3% duty cycle) (MV5477C=90 mA) (MV5377C=60 mA)	I_{FM}	35	mA
Reverse Voltage (I_R = 100 µA)	V_R	5	V
Lead Soldering Time at 260°C (See Note 1)	T_{SOL}	5	sec
Operating Temperature	T_{OPR}	-55 to +100	°C
Storage Temperature	T_{STG}	-55 to +100	°C

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Part Number	Symbol	MV5077C	MV5877C	MV5477C	MV5777C	Condition
Luminous Intensity (mcd)						I_F = 20mA
Minimum	I_V	0.3	1.0	1.0	1.0	
Typical		1.8	7.0	7.0	7.0	
Forward Voltage (V)						I_F = 20mA
Typical	V_F	1.6	2.1	2.2	2.0	
Maximum		2.0	3.0	3.0	3.0	
Spectral Line Half Width (nm)		20	35	35	45	I_F = 20mA
Peak Wavelength (nm)	λ_P	660	585	565	635	I_F = 20mA
Viewing Angle (Total) (°)	2θ 1/2	140	140	140	140	I_F = 20mA

1. The leads of the device were immersed in molten solder at 260°C, to a point 1/16 inch (1.6 mm) from the body of the device per MIL-S-750, with a dwell time of 5 seconds.

LOW PROFILE T-1
SOLID STATE LAMPS

TYPICAL PERFORMANCE CURVES (T_A =25°C)

Fig. 1 Forward Current vs. Forward Voltage

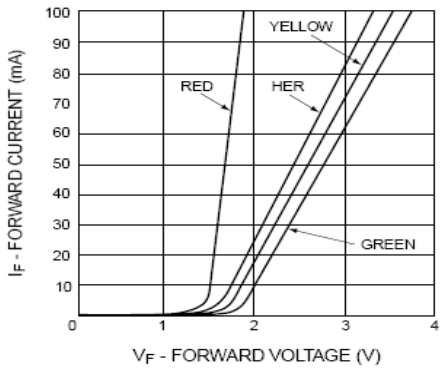


Fig. 2 Luminous Intensity vs. Forward Current

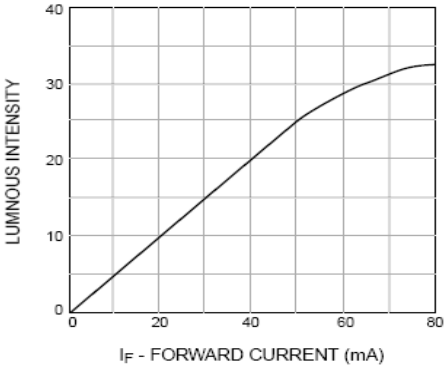


Fig. 3 Spatial Distribution

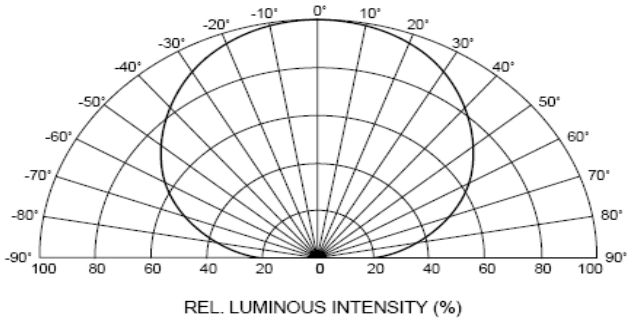
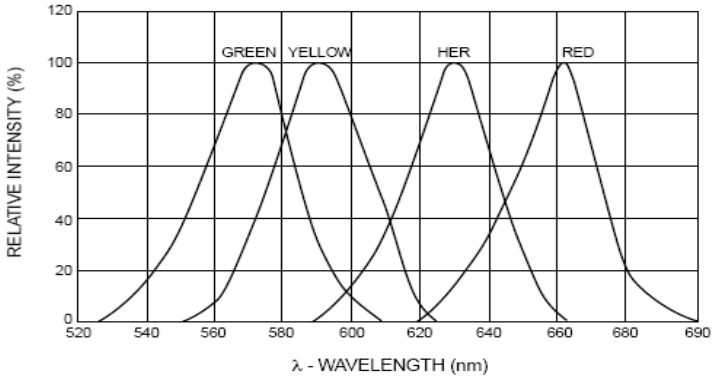


Fig. 4 Relative Intensity vs. Peak Wavelength



LOW PROFILE T-1
SOLID STATE LAMPS

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical the body,or (b) support or sustain life, whose failure to perform when properly used in accordance with instructions for use provided In the labeling, can be reasonably expected to result in a significant injury of the user.

2. A critical component in any component of a life support device or system whose failure to perform can be implant into reasonably expected to cause the failure of the life and (c) support device or system, or to affect its safety or effectiveness.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - Through Hole ***category:***

Click to view products by Everlight ***manufacturer:***

Other Similar products are found below :

LTL-10254W LTL-1214A LTL-2231AT LTL-3251A LTL-4262N LTL-433P LTL-5234 LTL87HTBK LTW-87HD4B HLMP-EL30-PS0DD 1L0532V23G0TD001 NSPW500CS LD CQDP-1U3U-W5-1-K LP379PPG1C0G0300001 SLR-342MC3F SLX-LX3044GD SLX-LX3044ID SLX-LX3044YD 1.90690.3330000 SSS-LX4673ID-410B 1L0532Y24I0TD001 264-7SYGD/S530-E2 HLMP-1301-G00FG HLMP1385 LTL-10224W LTL-1224A LTL-1234A LTL-2251AT LTL-403HR LTL-4222 LU7-E-B 4380H1 HLMP-3962-F0002 HLMP-GG15-R0000 323-2SURD/S530-A3 L53SRC/E-Z L-7679C1ZGC 4302T1-5V 4306D23 4363D1/5 WP1503SRC/J4 WP153YDT WP1543SGC WP1543SURC WP53MGD WP7113HD WP7113MBD WP7113MGC WP7143SEC/H Z-221A