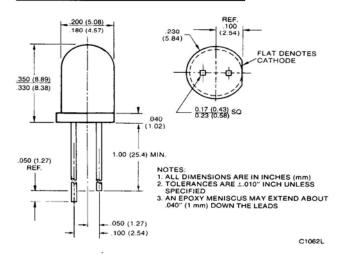




# ORANGE MV5153/4A MV6153/4A YELLOW MV5353/4A MV6353/4A HIGH EFFICIENCY GREEN MV5453/4A MV64530/1 MV64544 HIGH EFFICIENCY RED MV5753/4A MV6753/4A

### **PACKAGE DIMENSIONS**



#### DESCRIPTION

These solid state indicators offer a variety of diffused lens effects and color availability. The High Efficiency Red and Yellow devices are made with gallium arsenide phosphide on gallium phosphide. The Green units are made with gallium phosphide on gallium phosphide. All devices are available with cathode long as MV5X5X, or with anode long as MV6X5X.

#### **FEATURES**

- High efficiency GaP light source with various lens effects
- Versatile mounting on PC board or panel
- Snap in grommet MP52 available as separate order item
- Long life—solid state reliability
- Low power requirements
- Compact, rugged, lightweight

CATHODE ANODE SOURCE LENS LENS						
LONG	LONG	SOURCE COLOR	LENS TYPE	LENS EFFECT	APPLICATION	
MV5153	MV6153	High Efficiency Red	Amber Diffused	Wide Beam	Direct View	
MV5154A	MV6154A	High Efficiency Red	Amber Diffused	Narrow Beam	High Bright Direct Vie	
MV5353	MV6353	Yellow	Yellow Diffused	Wide Beam	Direct View	
MV5354A	MV6354A	Yellow	Yellow Diffused	Narrow Beam	High Bright Direct Vie	
MV5453	MV64530/1	High Efficiency Green	Green Diffused	Wide Beam	Direct View	
MV5454A	MV6454A	High Efficiency Green	Green Diffused	Narrow Beam	High Bright Direct Vie	
MV5753	MV6753	High Efficiency Red	Red Diffused	Wide Beam	Direct View	
MV5754A	MV6754A	High Efficiency Red	Red Diffused	Narrow Beam	High Bright Direct Vie	



# **DIFFUSED T-13/4 SOLID STATE LAMPS**

PARAMETER	TEST COND.	UNITS	6153 5153	6154A 5154A	6353 5353	6354A 5354A	64530 5453	64531	6454A 5454A	6753 5753	6754A 5754A
Forward voltage (V <sub>F</sub> )	<del></del> _										
typ.	$I_F=20 \text{ mA}$	V	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.0	2.0
max.	$I_F=20 \text{ mA}$	V	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Luminous Intensity											
min.	$I_F=20 \text{ mA}$	mcd	3.0	10.0	2.5	10.0	3.0	7.0	10.0	3.0	10.0
typ.	$I_F=20 \text{ mA}$	mcd	15	25	15	25	20	20	30	15	25
Peak wavelength	I <sub>F</sub> =20 mA	nm	635	635	585	585	562	562	562	635	635
Spectral line half width	I <sub>F</sub> =20 mA	nm	45	45	35	35	30	30	30	45	45
Capacitance											
typ.	V=0, $f=1$ MHz	pF	45	45	45	45	20	20	20	45	45
Reverse voltage (V <sub>R</sub> )				-							
min.	$I_{R} = 100 \ \mu A$	V	5	5	5	5	5	5	5	5	5
Reverse current (I <sub>R</sub> )	,										-
max.	$V_R=5.0 V$	$\mu$ A	100	100	100	100	100	100	100	100	100
Viewing angle (total)	See Fig. 3	degrees	65	24	65	24	75	75	24	65	24

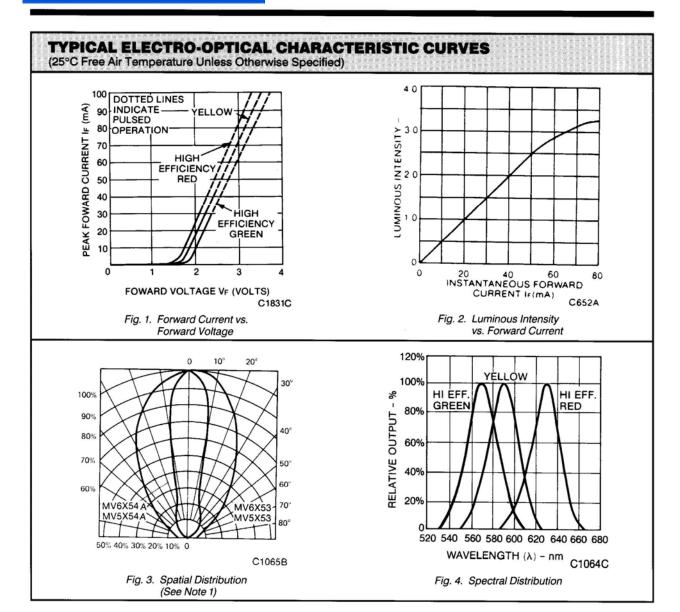
	Unless Otherwise Specified) H.E. RED.					
	YELLOW	ORANGE	GREEN			
Power dissipation at 25°C ambient	85 mW	120 mW	120 mW			
Perate linearly from 25°C (MVX453/4A from 50°C)	1.6 mW/°C	1.6 mW/°C	1.6 mW/°C			
Storage and operating temperatures	-55°C to +100°C	-55°C to +100°C	-55°C to +100°C			
ead soldering time at 260°C (See Note 2)	5 sec.	5 sec.	5 sec.			
Continuous forward current at 25°C	20 mA	35 mA	30 mA			
Peak forward current (1 µsec pulse, 0.3% duty cycle)		1.0 A	90 mA			
Reverse voltage	5.0 V	5.0 V	5.0 V			

## NOTES

- The axis of spatial distribution are typically within a 10° cone with reference to the central axis of the device.
   The leads of the device were immersed in molten solder, at 260°C, to a point 1/16 inch (1.6 mm) from the bodyof the device per MIL-S-750, with a dwell time of 5 seconds.



# DIFFUSED T-13/4 SOLID STATE LAMPS





# DIFFUSED T-1 3/4 SOLID STATE LAMPS

#### **DISCLAIMER**

FAIRCHILD SEMICONDUCTOR RESERVES 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:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, support or sustain life, and (c) whose failure to support 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.
- A critical component in any component of a life support device or system whose failure to perform can be or (b) reasonably expected to cause the failure of the life 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