阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网,版权归原作者所有。如读者和版权方有任何异议请及时告之,我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译,其目的是协助用户阅读,该译文无法自动跟随原稿更新,同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料,来自厂商的技术支持或者使用者的心得体会等,其内容可能存在描 叙上的差异,建议读者做出适当判断。
- 4.如需与我们联系,请发邮件到marketing@iczoom.com,主题请标有"数据手册"字样。

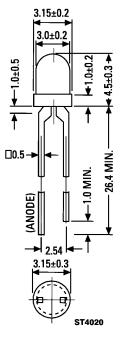
Read Statement

- 1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
- 2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
- 3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
- 4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".



RED MV50640 YELLOW MV5364X HIGH EFFICIENCY GREEN MV5464X/HLMP-15X3 HIGH EFFICIENCY RED MV5764X/HLMP-130X

PACKAGE DIMENSIONS



NOTES:

- ALL DIMENSIONS ARE IN MM.
 LEAD SPACING IS MEASURED
 WHERE THE LEADS EMERGE FROM THE PACKAGE.
 3. PROTRUDED RESIN UNDER
- THE FLANGE IS 1.5 mm (0.059")

DESCRIPTION

These solid state indicators offer a variety of color selection. The High Efficiency Red and Yellow devices are made with gallium arsenide phosphide on gallium phosphide. The High Efficiency Green utilizes an improved gallium phosphide light emitting diode. All are encapsulated in epoxy packages with diffused lenses. Their small size, wide viewing angle, and small square leads contribute to their versatility as all-purpose indicators.

FEATURES

- Replacement for the HLMP-1300 and -1500 product series
- 100 mil lead spacing T-1
- High efficiency GaP light
- Versatile mounting on PC board or panel
- Wide viewing angle
- Diffused tinted lens

PHYSICAL CHARACTERISTICS					
TYPE	SOURCE COLOR	LENS EFFECT	LUMINOUS INTENSITY at 25°C (mcd) MIN. TYP.		TEST CONDITIONS
MV50640	Standard Red	Red Diffused	0.5	1.5	I _F =20 mA
MV53640	Yellow	Yellow Diffused	1.0	2.0 ງ	$I_{\rm F}$ =10 mA
MV53641			1.5	3.0	
MV53642			2.5	4.5	
MV54643	High Efficiency Green	Green Diffused		•	
(HLMP-1503)			2.0	ן 5.0	I₅=20 mA
MV54644				}	I _F =20 IIIA
(HLMP-1523)			6.0	10.0 J	
MV57640	High Efficiency Red	Red Diffused			
(HLMP-1300)			1.0	ر 2.0	
MV57641					
(HLMP-1301)			2.0	2.5 }	$I_F = 10 \text{ mA}$
MV57642					
(HLMP-1302)			3.0	4.0	



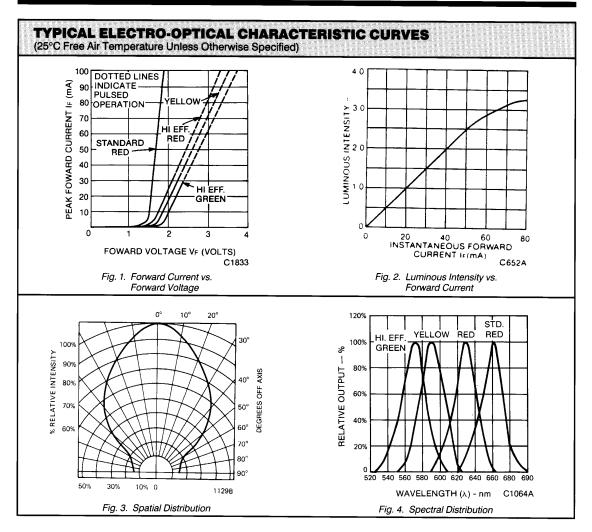
DIFFUSED T-100 SOLID STATE LAMPS

PARAMETER	omporator	SYMBOL	erwise Specified)	UNITS	MV50640* RED	MV5364X YELLOW	MV5464X HI. EFF. GREEN	MV5764X HI. EFF. RED
Forward voltage	typ. max.	V _F	I _F =10 mA	V	1.6 2.0	2.1 3.0	2.2* 3.0*	2.0 3.0
Peak wavelength		λ	I _F =10 mA	nm	660	585	562	635
Spectral line half width			l _F =10 mA	nm	20	35	30	45
Capacitance	typ.	С	V=0, f=1 MHz	pF	23	45	20	45
Reverse voltage	min.	V _{BR}	I _R =100 μA	٧	5.0	5.0	5.0	5.0
Viewing angle (total)	typ.	201/2	See Fig. 3	degrees	90	90	90	90

^{*}I_F=20 mA

	YLW.	STD. RED	HER/HEG
Power dissipation at 25°C ambient	85	120 mW	120 mW
Derate linearly from 50°C	1.6 mW/°C	1.6 mW/°C	1.6 mW/°C
torage and operating temperatures	-55°C to +100°C	-55°C to +100°C	-55°C to +100°C
ead soldering time at 260°C (1/16 inch from body)	5 sec.	5 sec.	5 sec.
Continuous forward current at 25°C	20 mA	30 mA	30 mA
Peak forward current (1 µsec pulse, 0.3% duty cycle)	60 mA	1.0 A	90 mA
Reverse voltage	5.0 V	5.0 V	5.0 V







DIFFUSED T-100 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, or (b) support or sustain life, and (c) 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.
- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.