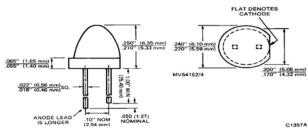


BULLET PROFILE T-13/4 SOLID STATE LAMPS

STANDARD RED MV50152/4 YELLOW MV53152/4

HIGH EFFICIENCY GREEN MV54152/4 HIGH EFFICIENCY RED MV57152/4

PACKAGE DIMENSIONS



NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (mm)
 2. TOLERANCES ARE .010 INCH UNLESS SPECIFIED
 3. AN EPOXY MENISCUS MAY EXTEND ABOUT .040" (1 mm)
 DOWN THE LEADS

DESCRIPTION

These solid state indicators offer a variety of lens effects and color availability in a short barrel T-134 package. The High Efficiency Red, High Efficiency Green and Yellow devices are made with gallium phosphide.

FEATURES

- High intensity light source with two lens effects
- Red, High Efficiency Red, High Efficiency Red, High Efficiency Green and Yellow colors available
- Versatile mounting on PC board or panel
- Long life—solid state reliability
- Low power requirements
- Compact, rugged, lightweight
- High efficiency
- MV5X154 diffused, MV5X152 non-diffused
- Short T-1¾ size

PHYSICAL CHARACTERISTICS						
TYPE	SOURCE COLOR	LENS COLOR	LENS EFFECT			
MV50152	Standard Red	Red Clear	Point Source			
MV50154	Standard red	Red Lightly Diffused	Soft Point Source			
MV53152	Yellow	Amber Clear	Point Source			
MV53154	Yellow	Amber Lightly Diffused	Soft Point Source			
MV54152	High Efficiency Green	Green Clear	Point Source			
MV54154	High Efficiency Green	Green Lightly Diffused	Soft Point Source			
MV57152	High Efficiency Red	Orange Clear	Point Source			
MV57154	High Efficiency Red	Orange Lightly Diffused	Soft Point Source			



BULLET PROFILE T-13/4 SOLID STATE LAMPS

PARAMETER		SYMBOL	TEST COND.	UNITS	50152	50154	53152	53154	54152	54154	57152	57154
Forward voltage	typ. max.	$V_{\scriptscriptstyle F}$	I_F =10 mA I_F =10 mA	V	1.6 2.0	1.6 2.0	2.1 3.0	2.1 3.0	2.2 3.0	2.2 3.0	2.0 3.0	2.0 3.0
Luminous Intensity	min. typ.	I _v	I _F =10 mA I _F =10 mA	mcd mcd	0.6 2.0	0.4 1.5	3.0 10.	1.5 8.0	2.5 15.0	2.0 12.0	4.0 10.0	2.0 8.0
Peak wavelength		λр	$I_F = 10 \text{ mA}$	nm	660	660	585	585	565	565	630	630
Spectral line half width			I _F =10 mA	nm	20	20	35	35	35	35	45	45
Capacitance	typ.	С	V=0	pF	30	30	45	45	20	20	45	45
Reverse voltage	min.	V _{BR}	I _R =100 μA	V	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Reverse current	max.	I _R	V _R =5.0 V	μΑ	100	100	100	100	100	100	100	100
Viewing angle (total) (See Fig. 2)		201/2		degrees	45	50	45	50	45	50	45	50

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless Otherwise S	pecified)
Power dissipation (MV5015X)	
Power dissipation (MV5315X=85 mW)	
Derate linearly from 25°C (MV5015X)	2.0 mW/°C
Derate linealy from 25°C	1.14 mW/°C
Storage and operating temperatures	55°C to +100°C
Lead soldering time at 260°C (See Note 2)	5 sec.
Continuous forward current (MV5015X)	100 mA
Continuous forward current (MV5315X=20 mA)	35 mA
Peak forward current (1μsec pulse, 0.3% duty cycle) (MV5415X=90 mA) (MV5315X=60 mA)
Reverse voltage	

NOTES

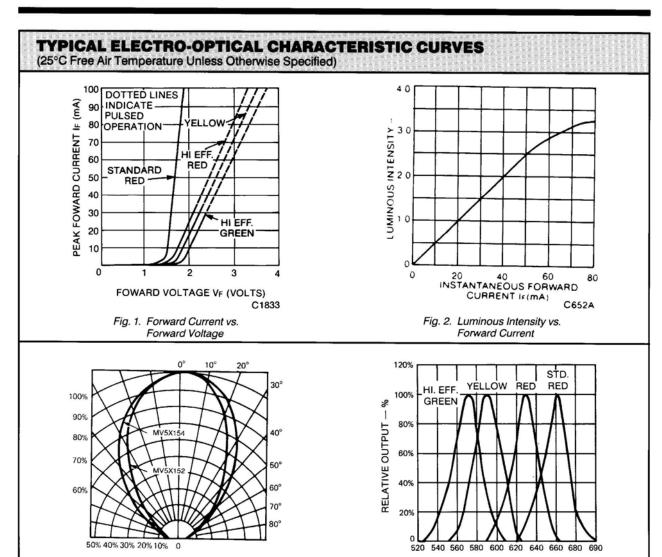
- 1. The axis of spatial distribution are typically within a 10° cone with reference to the central axis of the device.
- 2. The leads of the device were immersed in molten solder at 260°C to a point 1/16 inch (1.6 mm) from the body of the device per MIL-Sd-750, with a dwell time of 5 seconds.



BULLET PROFILE T-13/4 SOLID STATE LAMPS

WAVELENGTH (λ) - nm C1064A

Fig. 4. Spectral Distribution



C1358

Fig. 3. Spatial Distribution (Note 1)



BULLET PROFILE 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 support which, (a) are intended for surgical implant into the body, be or (b) support or sustain life, and (c) whose failure to life 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 device or system whose failure to perform can easonably expected to cause the failure of the 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 LED Circuit Board Indicators category:

Click to view products by Everlight manufacturer:

Other Similar products are found below:

568-0701-841F LTL-4221NH129 LTL-42DGNMHDP1 HLMP1521101 HLMP1523802F HLMP1700101F HLMP1700104F BHA-1564-G SMF-HM1530YD-305 SSF-LXH409SYSUGW AM2520EHSGD HLMP1301104F HLMP1385101F HLMP1421101 HLMP1503103F HLMP1503104F HLMP1700102F HLMP1700106F HLMP1700107F HLMP1790101F HLMP1790103F LTL-4211NHBP 5390H3 551-2802F 552-0794-810F 553-0222-812F HT3-BC-T 564-0700-831F WP59BLGEW 103-3101-1231-403 5502407811F 550-3007-810F 551-3307MF 552080-1 573-2399-100F 592-2020-302F 5932-927-2701-3F SMF-HM1530SRD-509 SSF-LXH100MID SSF-LXH2103SRSRDRP SSF-LXH555USBW WP937SB/4YGW WP937EB2EGW 551-0312-802F 553-0110-802F 561-5501-050F 6202T3-5VLC LTL-307G08A-D CMD57164 568-2231-313F