

SEMICONDUCTOR

STANDARD RED MV50152/4 YELLOW MV53152/4

PACKAGE DIMENSIONS FLAT DENOTES CATHODE .250" (6.35 mm) .240" (6.10 mm .210" (5.33 mm) .220" (5.59 mm 0 53 .065" (1.65 mm) .200" (5.08 mm) MV54152/4 1.00" .022" (0.56 mm) sc MIN ANODE LEAD IS LONGER .050 (1.27) NOMINAL .10" NOM C1357A

NOTES:

ALL DIMENSIONS ARE IN INCHES (mm)
TOLERANCES ARE .010 INCH UNLESS SPECIFIED
AN EPOXY MENISCUS MAY EXTEND ABOUT .040" (1 mm)

DOWN THE LEADS

BULLET PROFILE T-1³/₄ **SOLID STATE LAMPS**

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

捷多邦,专业PCB打样工厂,24小时加急出货

DESCRIPTION

These solid state indicators offer a variety of lens effects and color availability in a short barrel T-1¾ 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
- WWW.DZSC.COM MV5X154 diffused, MV5X152 non-diffused
- Short T-1¾ size

| PHYSICAL CHARACTERISTICS | | | |
|--------------------------|-----------------------|-------------------------|-------------------|
| ТҮРЕ | 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-1¾ SOLID STATE LAMPS

ELECTRO-OPTICAL CHARACTERISTICS (T_=25°C Unless Otherwise Specified) TEST COND SYMBOL PARAMETER UNITS 50152 50154 53152 53154 54152 54154 57152 57154 V ۷ 2.1 Forward voltage $I_F = 10 \text{ mA}$ 1.6 1.6 2.1 2.2 2.2 2.0 2.0 typ. 3.0 3.0 3.0 max $I_F = 10 \text{ mA}$ 2.0 2.0 3.0 3.0 3.0 Luminous Intensity min. I_v I_F=10 mA mcd 0.6 0.4 3.0 1.5 2.5 2.0 4.0 2.0 1.5 $I_F = 10 \text{ mA}$ mcd 2.0 10. 8.0 15.0 12.0 10.0 8.0 typ. $I_F = 10 \text{ mA}$ 660 660 585 Peak wavelength 585 565 565 630 630 λр nm Spectral line half width $I_F = 10 \text{ mA}$ 20 20 35 35 nm 35 35 45 45 С V = 030 45 Capacitance typ. pF 30 45 20 20 45 45 Reverse voltage VBR $I_{R} = 100 \ \mu A$ ٧ min. 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 Reverse current $V_{R} = 5.0 V$ max. I_R μA 100 100 100 100 100 100 100 100 Viewing angle (total) (See Fig. 2) 201/2 45 50 45 50 45 50 45 50 degrees

| Power dissipation (MV5015X) | 180 mW |
|---|-----------|
| Power dissipation (MV5315X=85 mW) | 105 mW |
| Derate linearly from 25°C (MV5015X) | 2.0 mW/°C |
| Derate linealy from 25°C | |
| Storage and operating temperatures | |
| Lead soldering time at 260°C (See Note 2) | |
| Continuous forward current (MV5015X) | |
| Continuous forward current (MV5315X=20 mA) | |
| Peak forward current (1µsec pulse, 0.3% duty cycle) (MV5415X=90 mA) (MV5315X=60 mA) | |
| Reverse voltage | |

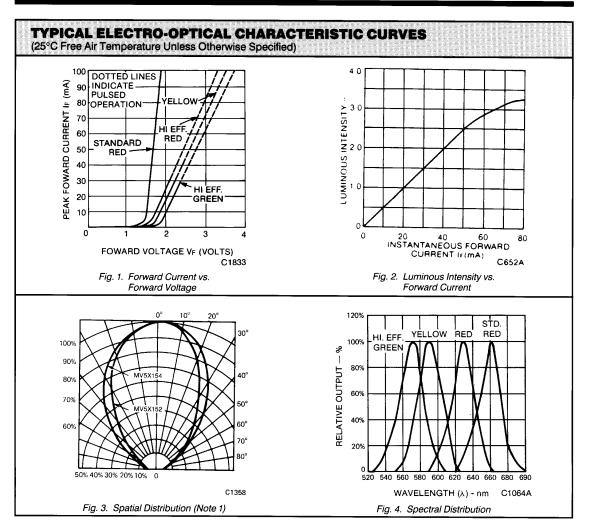
NOTES

1. The axis of spatial distribution are typically within a 10° cone with reference to the central axis of the device.

 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-134 SOLID STATE LAMPS





BULLET PROFILE T-1 3/4 SOLID STATE LAMPS

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- 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.