

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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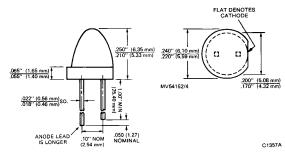


BULLET PROFILE T-1% SOLID STATE LAMPS

STANDARD RED MV50152/4 YELLOW MV53152/4

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

PACKAGE DIMENSIONS



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

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
- 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-1% 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.	l _v	$I_F = 10 \text{ mA}$ $I_F = 10 \text{ mA}$	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 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

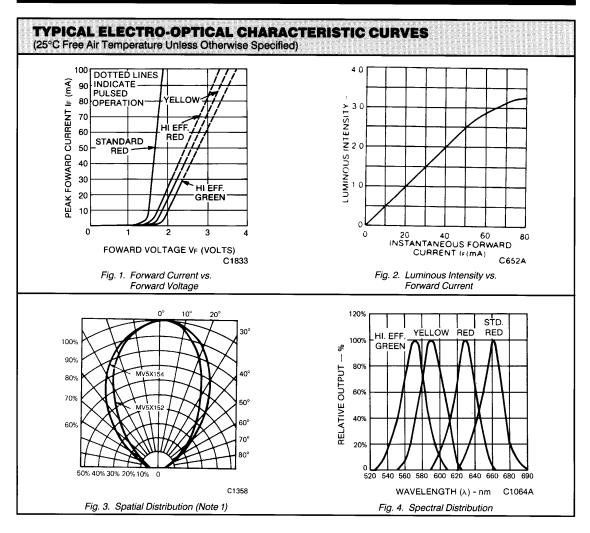
Power dissipation (MV5015X)	180 mW
Power dissipation (MV5315X=85 mW)	
Derate linearly from 25°C (MV5015X)	
Derate linealy from 25°C	1.14 mW/°C
Storage and operating temperatures	
Lead soldering time at 260°C (See Note 2)	
Continuous forward current (MV5015X)	100 mA
Continuous forward current (MV5315X=20 mA)	
Peak forward current (1μsec pulse, 0.3% duty cycle) (MV5415X=90 mA) (MV53	
Reverse voltage	

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 body of the device per MIL-Sd-750, with a dwell time of 5 seconds.



BULLET PROFILE T-13/4 SOLID STATE LAMPS





BULLET PROFILE T-1 3/4 SOLID STATE LAMPS

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