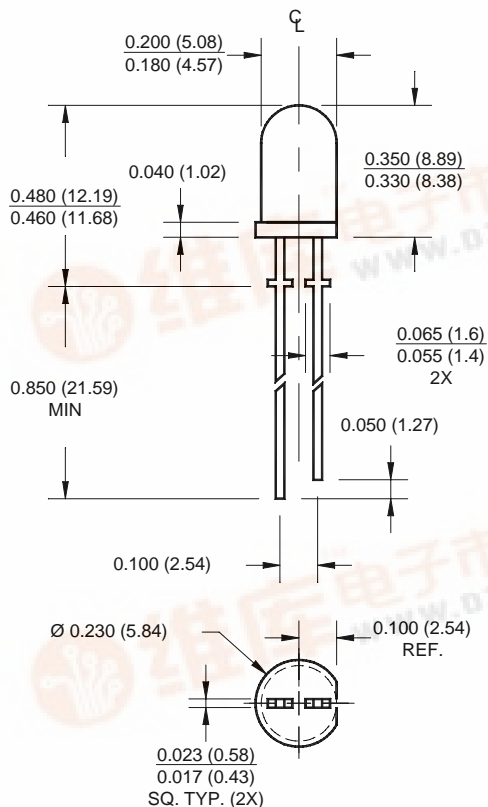


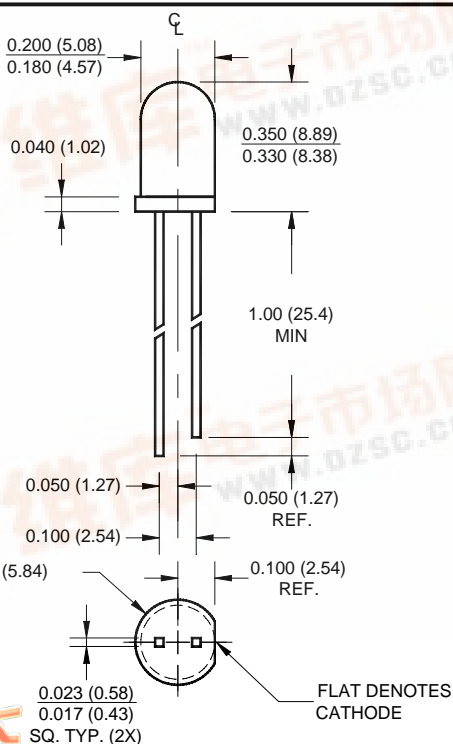
**FAIRCHILD**  
SEMICONDUCTOR™

# T-1 3/4 (5mm) SOLID STATE LAMPS

## PACKAGE DIMENSIONS



**HLMP-3X50A**

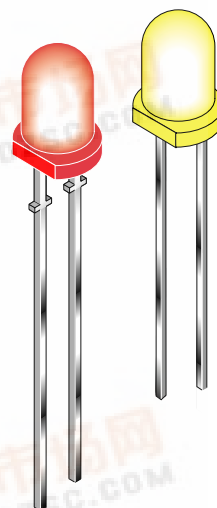


**MV3X50**

**HLMP-3X50A**  
**MV3X50**

## FEATURES

- Pale tint
  - Sturdy leads with or without stand-off on T-1 3/4
  - Excellent for small area backlighting
  - HER
  - Green
  - Yellow
- HLMP-3750A  
MV3750
- HLMP-3950A  
MV3450
- HLMP-3850A  
MV3350



## DESCRIPTION

The HLMP-3X50 series consists of tinted and water clear T-1 3/4 LED lamps with standoffs.

The MV3X50 series is the same as Agilent's HLMP-3X50A series, except for the standoffs.

Both series are available in red, yellow and green with a minimum intensity of 80mcd.

## NOTES:

ALL DIMENSIONS ARE IN INCHES (mm).



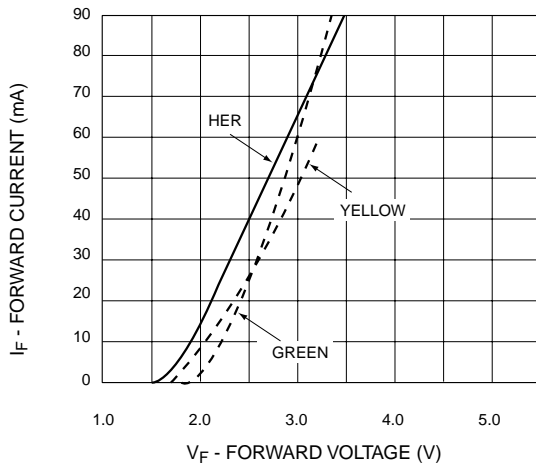
## ABSOLUTE MAXIMUM RATING (T<sub>A</sub> =25°C)

Parameter	HER	YELLOW	GREEN	UNITS
Power Dissipation	135	85	135	mW
Peak Forward Current	90	60	90	mA
Continuous DC Forward Current	30	20	30	mA
Lead Soldering Time at 260° C	5	5	5	sec
Operating Temperature	-55 to +100	-55 to +100	-50 to +100	°C
Storage Temperature	-55 to +100	-55 to +100	-50 to +100	°C

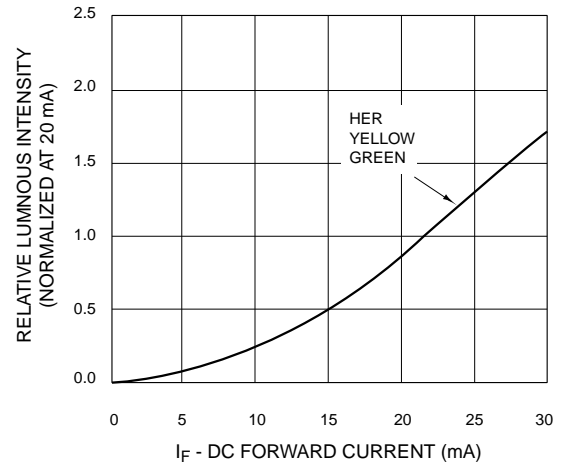
## ELECTRICAL / OPTICAL CHARACTERISTICS (T<sub>A</sub> =25°C)

Parameter	MV3750 HLMP-3750A	MV3350 HLMP-3850A	MV3450 HLMP-3950A	Condition
Luminous Intensity (mcd)				I <sub>F</sub> = 20mA
Minimum	80	80	80	
Typical	150	150	150	
Forward Voltage (V)				I <sub>F</sub> = 20mA
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.2	
Peak Wavelength (nm)	635	585	565	I <sub>F</sub> = 20mA
Reverse Voltage (V)	5	5	5	I <sub>R</sub> = 100μA
Viewing Angle (°)	24	24	24	I <sub>F</sub> = 20mA

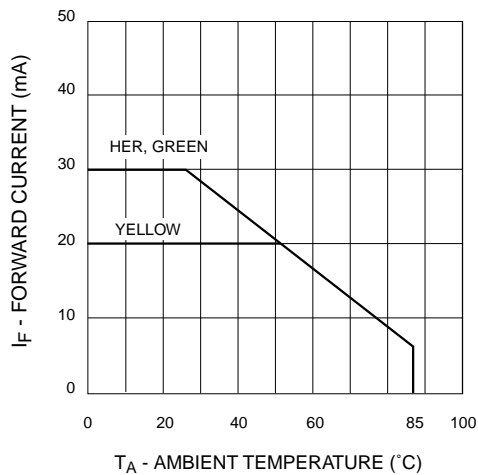
## TYPICAL PERFORMANCE CURVES ( $T_A = 25^\circ\text{C}$ )



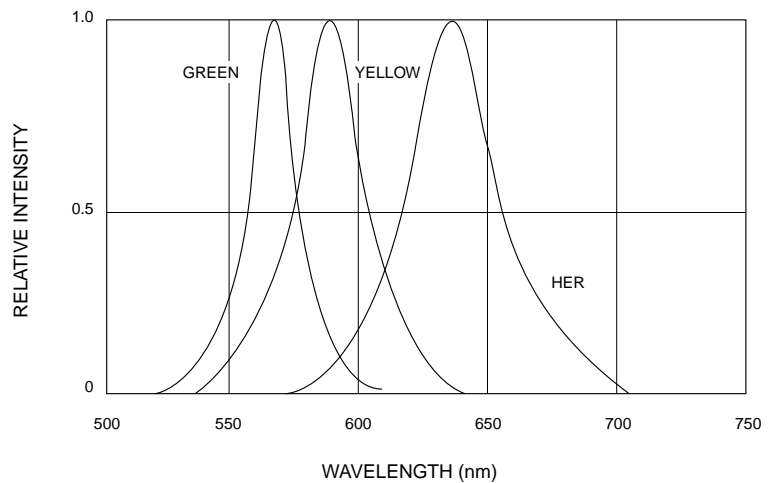
**Fig. 1 Forward Current vs. Forward Voltage**



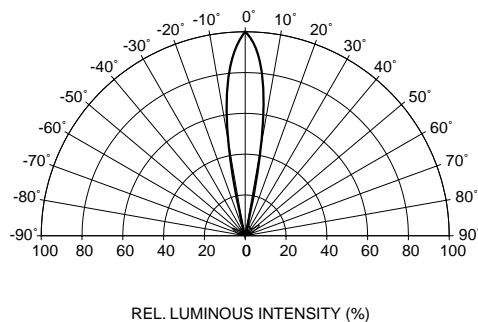
**Fig. 2 Relative Luminous Intensity vs. DC Forward Current**



**Fig. 3 Current Derating Curve**



**Fig. 4 Relative Intensity vs. Peak Wavelength**



**Fig. 5 Radiation Diagram**

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  2. 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.
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