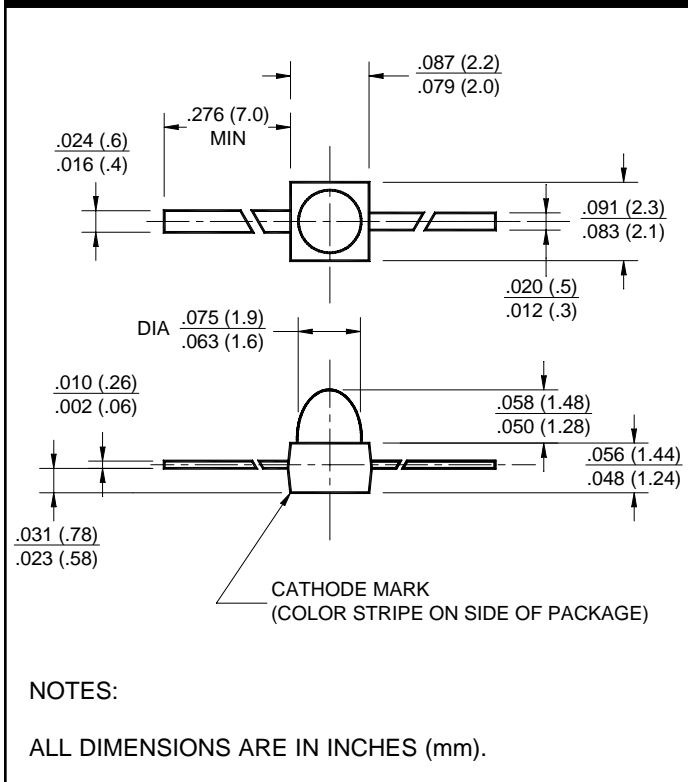


SUBMINIATURE T-3/4 LED

DIFFUSED and CLEAR LAMPS

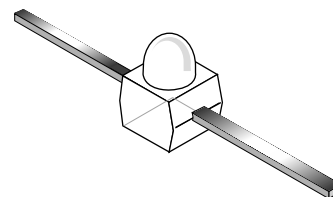
HIGH EFF. RED	HLMP-6305A	Water Clear	MV6700A	Red Diffused
YELLOW	HLMP-6405A	Water Clear	MV6300A	Yellow Diffused
GREEN	HLMP-6505A	Water Clear	MV6400A	Green Diffused
AlGaAs RED	HLMP-Q105A	Water Clear	HLMP-Q150A	Red Diffused

PACKAGE DIMENSIONS



FEATURES

- Subminiature T-3/4 transfer molded
- Low package profile
- Axial leads
- Wide viewing angle
- SMT versions



DESCRIPTION

These T-3/4 subminiature LED lamps feature a square-base, transfer molded package for surface mount applications. A tinted diffused or water clear epoxy lens — available in AlGaAs red, high-efficiency red, green, and yellow — produces wide-angle beam emission and sharp on/off contrast. They are available with gullwing lead bends for top mounting, as well as yoke lead bends and Z-bends for mounting to the back of a PCB.

ABSOLUTE MAXIMUM RATING (T_A = 25°C)

Parameter	HLMP-6305A MV6700A	HLMP-6405A MV6300A	HLMP-6505A MV6400A	HLMP-Q105A HLMP-Q150A	UNITS
Power Dissipation	135	85	135	85	mW
Average Forward Current	30	20	30	30	mA
Peak Forward Current (1 μs pulsewidth, 0.1% DF)	90	60	90	300	mA
Lead Soldering Time at 260° C	5	5	5	5	sec
Operating Temperature	-55 to +100	-55 to +100	-50 to +100	-20 to +100	°C
Storage Temperature	-55 to +100	-55 to +100	-50 to +100	-20 to +100	°C

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A = 25°C)

Part Number QTLP-	MV6700A	MV6300A	MV6400A	HLMP-Q150A	Condition
Luminous Intensity (mcd)					I _F = 10mA
Minimum	1.0	1.0	1.0	1.0*	
Typical	3.0	3.0	3.0	1.8*	*Tested at I _F = 1mA
Forward Voltage (V)					I _F = 10mA
Maximum	3.0	3.0	3.0	1.8*	
Typical	1.8	2.0	2.0	1.6*	*Tested at I _F = 1mA
Peak Wavelength (nm)	635	585	565	660	I _F = 10mA
Spectral Line Half Width (nm)	40	36	28	20	I _F = 10mA
Reverse Voltage (V)	5	5	5	5	I _R = 100μA
Viewing Angle (°)	50	50	50	50	I _F = 10mA

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A = 25°C)

Part Number QTLP-	HLMP-6305A	HLMP-6405A	HLMP-6505A	HLMP-Q105A	Condition
Luminous Intensity (mcd)					I _F = 10mA
Minimum	3.0	3.0	3.0	20.0**	
Typical	12.0	12.0	12.0	50.0**	**Tested at I _F = 20mA
Forward Voltage (V)					I _F = 10mA
Maximum	3.0	3.0	3.0	2.4**	
Typical	1.8	2.0	2.0	1.8**	**Tested at I _F = 20mA
Peak Wavelength (nm)	635	585	565	660	I _F = 10mA
Spectral Line Half Width (nm)	40	36	28	20	I _F = 10mA
Reverse voltage (V)	5	5	5	5	I _R = 100μA
Viewing Angle (°)	25	25	25	25	I _F = 10mA

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

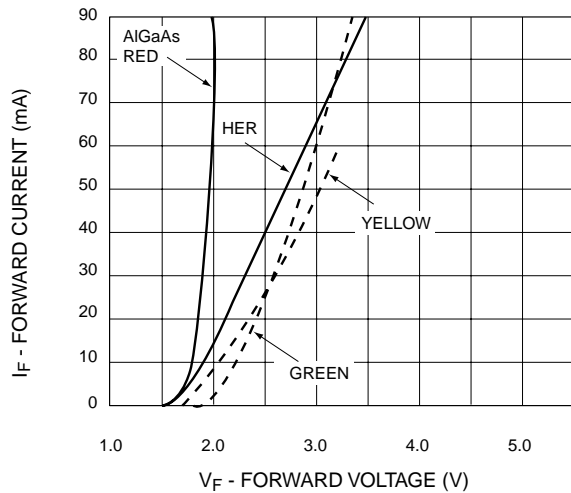


Fig. 1 Forward Current vs. Forward Voltage

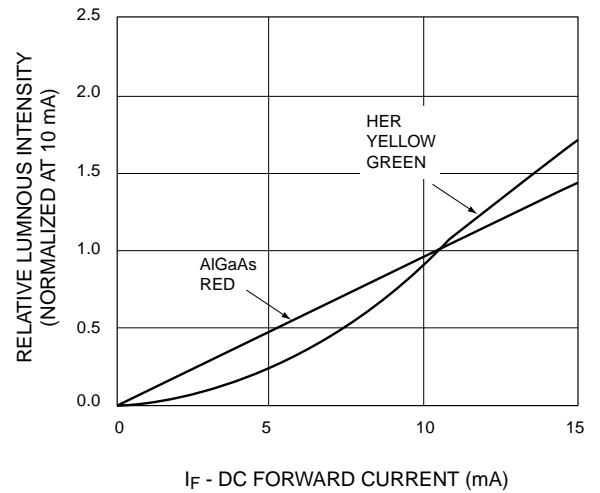


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

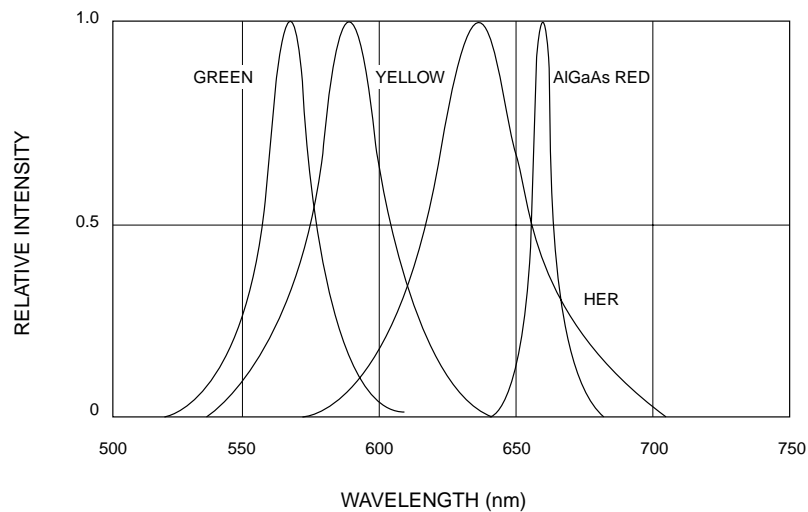


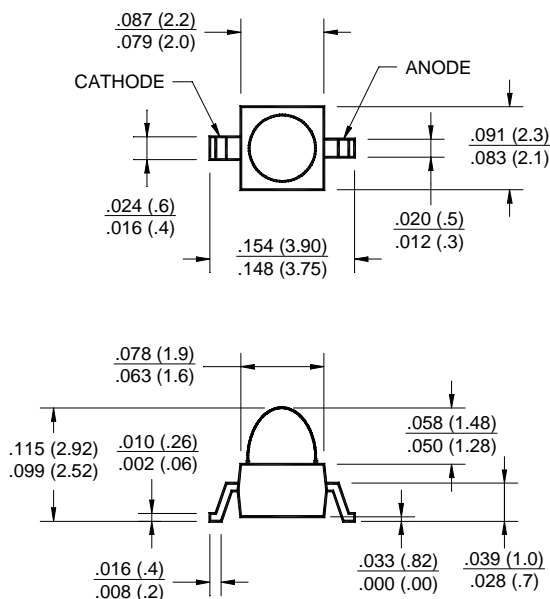
Fig. 3 Relative Intensity vs. Peak Wavelength

SUBMINIATURE T-3/4 LED

DIFFUSED and CLEAR LAMPS

OPTIONAL CONFIGURATIONS

GULLWING LEAD CONFIGURATION



FEATURES

- Available in Gullwing, Yoke and Z-bend lead formings
- Compatible with automatic placement equipment
- Compatible with vapor phase reflow soldering processes
- Long life — solid state reliability
- Reel and tape or bulk packaging available

DESCRIPTION

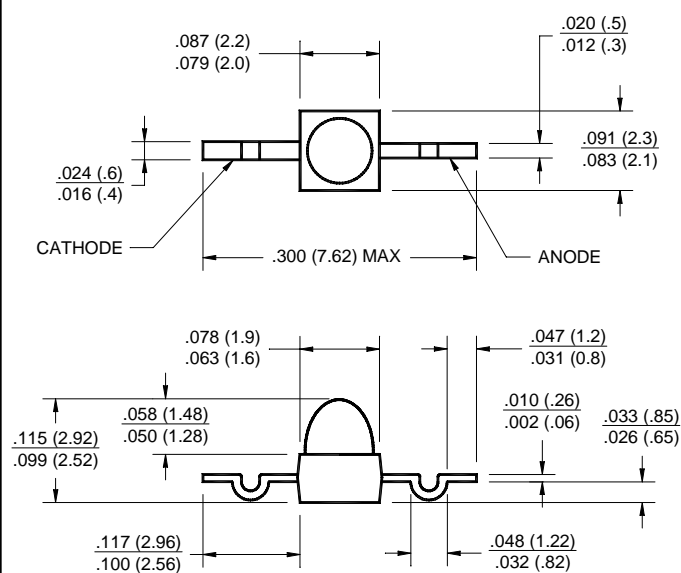
These subminiature solid state lamps are transfer molded in an axial lead package. They are available in yellow, green, high efficiency red and AlGaAs red in both diffused and water clear lens.

Automatic placement equipment can be used to mount the LEDs on the PC board. The lamps can be mounted using either batch or in line vapor phase reflow solder processes.

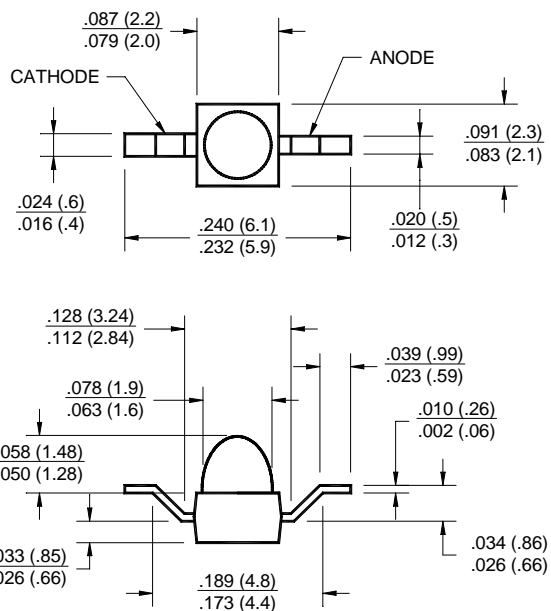
NOTES:

ALL DIMENSIONS ARE IN INCHES (mm)

YOKE LEAD CONFIGURATION



Z-BEND LEAD CONFIGURATION



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