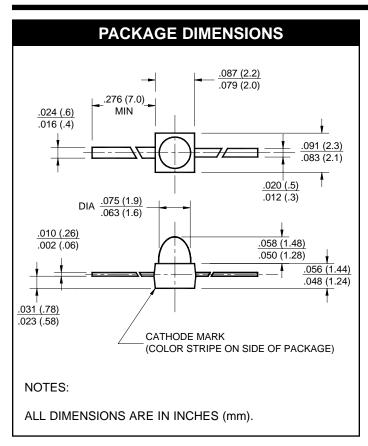


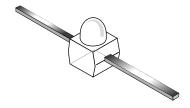
SUBMINIATURE T-3/4 LED DIFFUSED and CLEAR LAMPS

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



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 (TA =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		



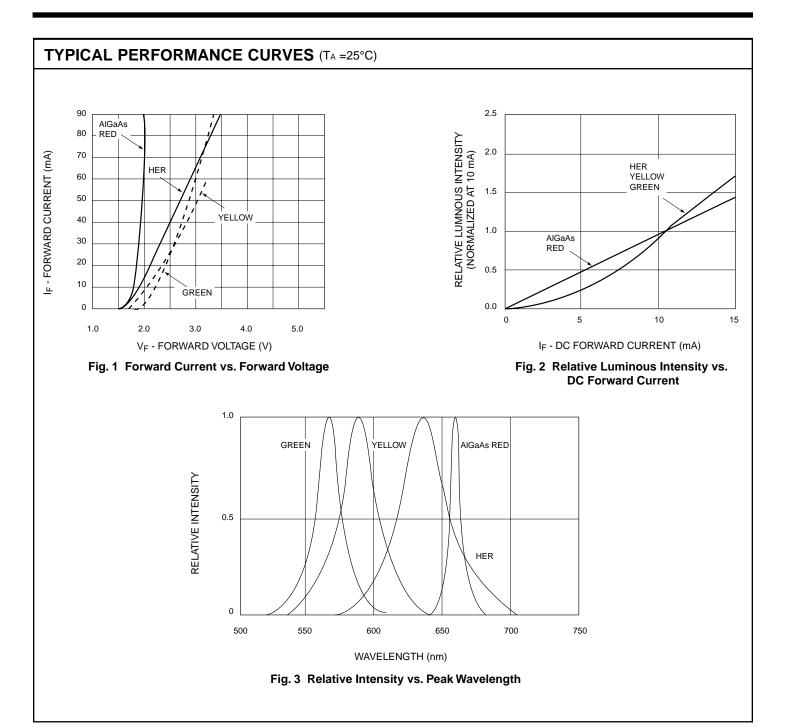
SUBMINIATURE T-3/4 LED DIFFUSED and CLEAR LAMPS

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =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 (TA =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	$I_{R} = 100 \mu A$			
Viewing Angle (°)	25	25	25	25	I _F = 10mA			



SUBMINIATURE T-3/4 LED DIFFUSED and CLEAR LAMPS





SUBMINIATURE T-3/4 LED DIFFUSED and CLEAR LAMPS OPTIONAL CONFIGURATIONS

GULLWING LEAD CONFIGURATION .087 (2.2) .079 (2.0) ANODE CATHODE .091 (2.3) .083 (2.1) .024 (.6) .020 (.5) .016 (.4) .012 (.3) .154 (3.90) .148 (3.75) .078 (1.9) .063 (1.6) .058 (1.48) .010 (.26) .050 (1.28) .115 (2.92) .002 (.06) .099 (2.52) .039 (1.0) .033 (.82) .016 (.4) .000 (.00) .028 (.7) .008 (.2)

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

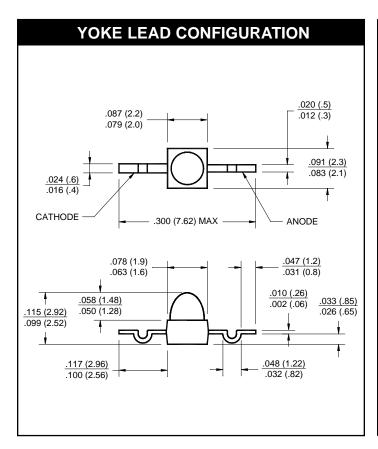
DESCRIPTION

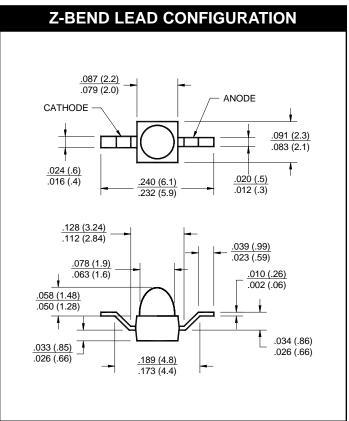
These subminiature solid state lamps are transfer molded in an axial lead package. They are available in yellow, green, high efficiency red and AlGaAs red in both diffused and water clear lens.

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)







SUBMINIATURE T-3/4 LED DIFFUSED and CLEAR 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.