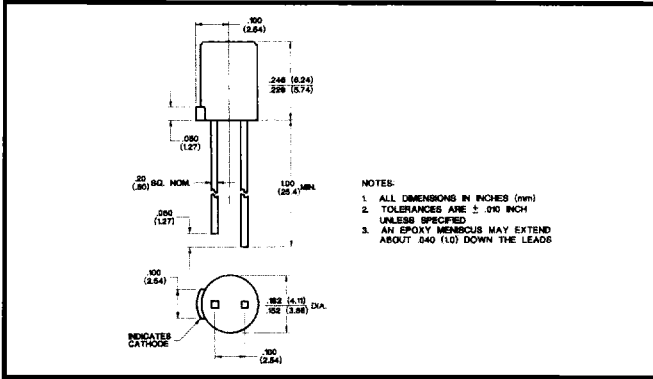




## 4mm Flat Top LED Lamps

### DESCRIPTION AND FEATURES



Bright colors and a wide view angle are the outstanding features of the new 4mm Flat Top lamps. The cylindrical shape and flat emitting surface make these lamps particularly well suited for applications requiring high light output in minimal space. These lamps are pin for pin replacements for Hewlett Packard lamps.

4

Solid State  
Products

### ELECTRO-OPTICAL CHARACTERISTICS

Part Number	Emitted Color	Lens Color	Package Type	Luminous Intensity			Forward Voltage			Capacitance pF Vr=0, f=1MHz	Peak Wavelength (nm)	View Angle (Degrees)
				Min. mcd	Typ. mcd	mA	Typ.	Max.	mA			
HLMP-M200	H.E. Red	Red	Diffused	3.4	5.0	20	2.2	3.0	20	20	635	135
HLMP-M201	H.E. Red	Red	Diffused	5.4	7.0	20	2.2	3.0	20	20	635	135
HLMP-M250	H.E. Red	Red	Non-Diffused	3.4	5.0	10	2.2	3.0	20	20	635	80
HLMP-M251	H.E. Red	Red	Non-Diffused	5.4	7.0	10	2.2	3.0	20	20	635	80
HLMP-M300	Yellow	Yellow	Diffused	3.6	5.0	20	2.2	3.0	20	15	585	135
HLMP-M301	Yellow	Yellow	Diffused	5.7	7.0	20	2.2	3.0	20	15	585	80
HLMP-M350	Yellow	Yellow	Non-Diffused	3.6	5.0	10	2.2	3.0	20	15	585	80
HLMP-M351	Yellow	Yellow	Non-Diffused	5.7	7.0	10	2.2	3.0	20	15	585	80
HLMP-M500	H.E. Green	Green	Diffused	4.2	7.0	20	2.3	3.0	20	18	565	135
HLMP-M501	H.E. Green	Green	Diffused	6.7	10.0	20	2.3	3.0	20	18	565	135
HLMP-M550	H.E. Green	Green	Non-Diffused	4.2	10.0	10	2.3	3.0	20	18	565	80
HLMP-M551	H.E. Green	Green	Non-Diffused	6.7	16.0	10	2.3	3.0	20	18	565	80

### ABSOLUTE MAXIMUM RATINGS

	H.E. Red	Yellow	H. E. Green	Units
Power Dissipation	135	120	135	mW
Storage/Operating Temperature	-55 to +100	-55 to +100	-55 to +100	°C
Lead Solder Time at 260°C	5	5	5	Seconds
Peak Forward Current (1 micro second pulse, 0.3% duty cycle)	90	60	90	mA
Reverse Voltage (IR = 100µA)	5.0	5.0	5.0	V
Average Forward Current	25	20	25	mA

### TYPICAL CHARACTERISTIC CURVES

