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PACKAGE DIMENSIONS

HLMP-3X50A

0.200 (5.08) / 0.180 (4.57)

0.040 (1.02)

0.480 (12.19) / 0.460 (11.68)

0.350 (8.89) / 0.330 (8.38)

0.065 (1.6) / 0.055 (1.4) 2X

0.850 (21.59) MIN

0.050 (1.27)

0.100 (2.54)

Ø 0.230 (5.84)

0.100 (2.54) REF.

0.023 (0.58) / 0.017 (0.43) SQ. TYP. (2X)

HLMP-3X50A

MV3X50

0.200 (5.08) / 0.180 (4.57)

0.040 (1.02)

0.350 (8.89) / 0.330 (8.38)

1.00 (25.4) MIN

0.050 (1.27)

0.050 (1.27) REF.

0.100 (2.54)

0.100 (2.54) REF.

Ø 0.230 (5.84)

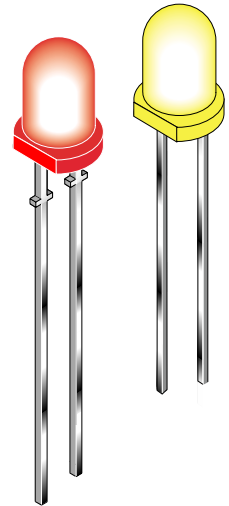0.023 (0.58) / 0.017 (0.43) SQ. TYP. (2X)

FLAT DENOTES CATHODE
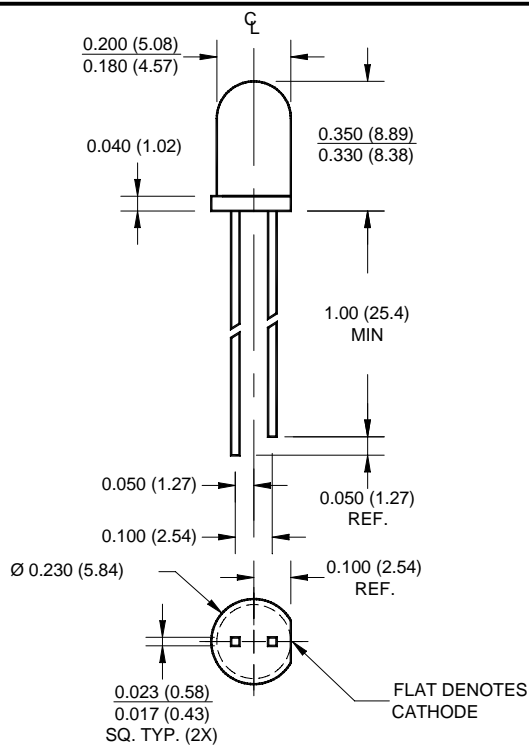
MV3X50

HLMP-3X50A
MV3X50

FEATURES

- Pale tint
- Sturdy leads with or without stand-off on T-1 3/4
- Excellent for small area backlighting
- HER
  HLMP-3750A
  MV3750
- Green
  HLMP-3950A
  MV3450
- Yellow
  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$_A$ =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$_A$ =25°C)

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

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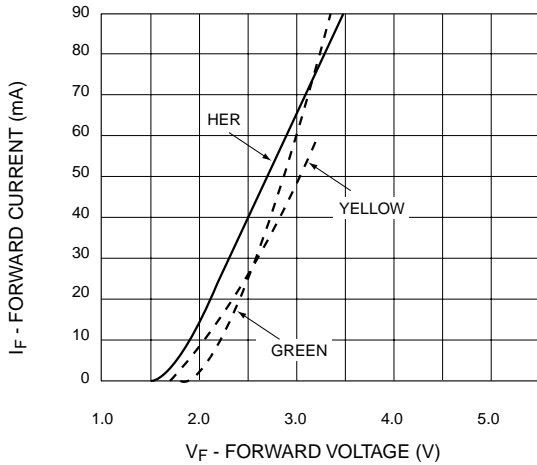## TYPICAL PERFORMANCE CURVES (T$_A$ =25°C)

Fig. 1 Forward Current vs. Forward Voltage
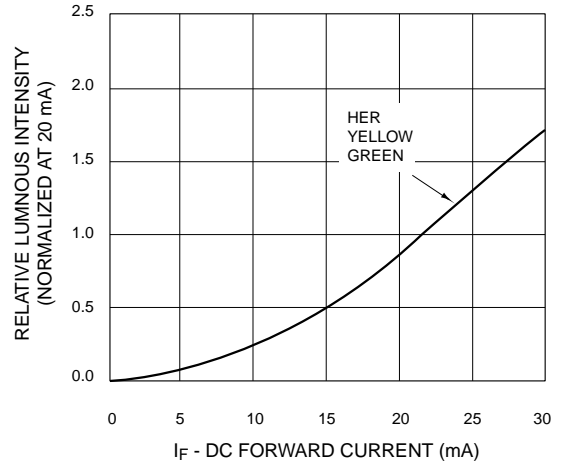

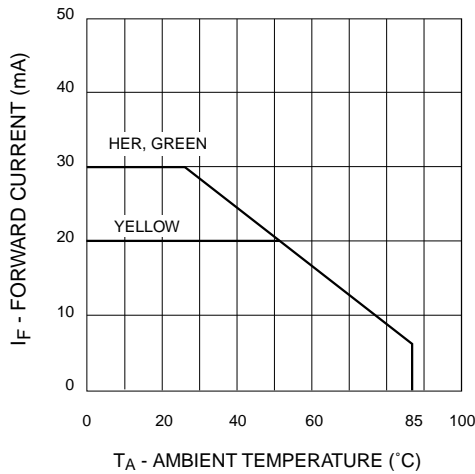**Fig. 2 Relative Luminous Intensity vs. DC Forward Current**
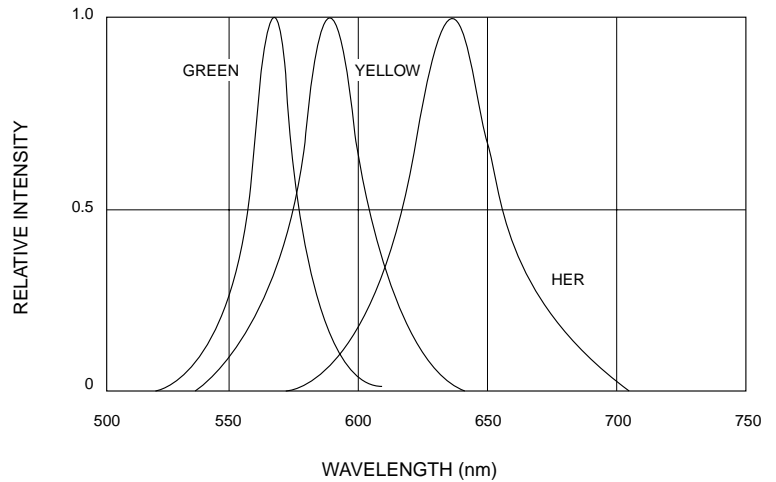

Fig. 3 Current Derating Curve

Fig. 4 Relative Intensity vs. Peak Wavelength
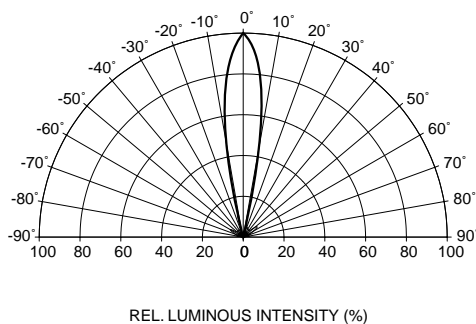

REL. LUMINOUS INTENSITY (%)

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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MV3350
Green T-1 3/4 (5 mm) Solid State Lamp

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General description

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

The MV3X50 series in 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.

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Features

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

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Testing conditions

- V_F @ I_F = 20 mA; I_V @ I_F = 20 mA

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MV33509.MP6NC	Full Production	$117647.0587	Purchase	T-1 3/4	BOX
MV33509.MP93	Full Production	$0.334	Purchase	T-1 3/4	BOX
MV3350.B4R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3350	Full Production	$0.051	Purchase	T-1 3/4	BOX
MV3350.B4R1	Full Production	N/A	Purchase	T-1 3/4	BOX
MV3350.A2R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV33509.MP5	Full Production	$0.141	Purchase	T-1 3/4	BOX
MV33509.MP6	Full Production	$0.141	Purchase	T-1 3/4	BOX
MV33509.MP8A	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV33509.MP7	Full Production	$0.167	Purchase	T-1 3/4	BOX
MV33509.MP8	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV33509.MP8B	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV3350.A4R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3350.B6R1	Full Production	N/A	Purchase	T-1 3/4	BOX

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MV3450
High Efficiency Red T-1 3/4 (5 mm) Solid State Lamp

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

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Features

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

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- V_F @ I_F = 20 mA; I_V @ I_F = 20 mA

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MV3450	Full Production	$0.051	Purchase	T-1 3/4	BOX
MV3450.A4R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3450.A2A0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV34509.MP94	Full Production	$0.334	Purchase	T-1 3/4	BOX
MV34509.MP8B	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV34509.MP8	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV34509.MP5	Full Production	$0.141	Purchase	T-1 3/4	BOX
MV34509.MP8A	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV3450.B4R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3450.B6R1	Full Production	N/A	Purchase	T-1 3/4	BOX
MV3450.B4R1	Full Production	N/A	Purchase	T-1 3/4	BOX
MV34509.MP6	Full Production	$0.141	Purchase	T-1 3/4	BOX
MV34509.MP7	Full Production	$0.167	Purchase	T-1 3/4	BOX
MV3450.A2R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3450.A3R0	Full Production	$0.058	Purchase	T-1 3/4	BOX

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MV3750
High Efficiency Green/AlGaAs Red Rectangular Solid State Lamp

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MV3750.A2R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3750.A1R0	Full Production	N/A	Purchase	T-1 3/4	BOX
MV37509.MP5	Full Production	$0.141	Purchase	T-1 3/4	BOX
MV37509.MP8A	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV3750.A6A1	Full Production	N/A	Purchase	T-1 3/4	BOX
MV3750.A3A0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV37509.MP7	Full Production	$0.167	Purchase	T-1 3/4	BOX
MV3750	Full Production	$0.051	Purchase	T-1 3/4	BOX
MV37509.MP8B	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV3750.A5R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3750.A3R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV37509.MP97	Full Production	$0.334	Purchase	T-1 3/4	BOX
MV37509.MP8	Full Production	$0.58	Purchase	T-1 3/4	BOX
MV3750.B4R0	Full Production	$0.058	Purchase	T-1 3/4	BOX
MV3750.B6R1	Full Production	N/A	Purchase	T-1 3/4	BOX

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