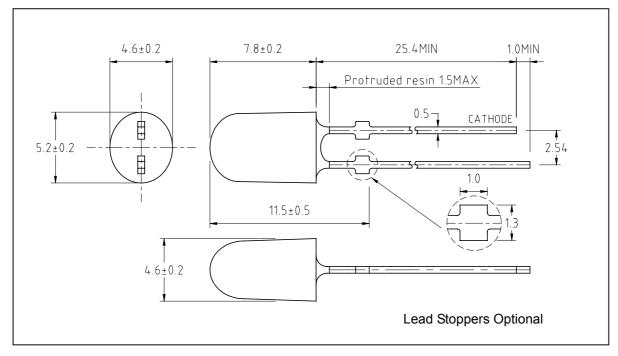


5mm Oval Precision Through-Hole Package

PL-LTAM5V70D series

FEATURES	APPLICATIONS
 Super luminosity Yellow-Amber 590nm LED TS AlInGaP/GaP die. 5.2mm X 4.6mm Oval Precision Package. Amber Diffused Lens. Wide viewing angles (70°(H) / 35° (V). UV Resistant Epoxy for Outdoor use. 	 Traffic Signals. Railroad Signals Outdoor Score/Clock Boards VMS. Back or Side lighting. Automotive.

PACKAGE OUTLINE DIMENSIONS:



NOTES:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ±0.25 mm unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.



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ABSOLUTE MAXIMUN RATING (at $T_A = 25$ °C)

Parameter	Symbol	Value	Unit		
Continuous Forward Current	I _F	50	mA		
Peak Forward Current (1/10 Duty Cycle, 0.1msec Pulse width)	I _{Fp}	150	mA		
Power Dissipation	P _d	130	mW		
Forward Voltage	V _f	2.6 ± 0.2	V		
Derating Factor	D _F	0.4	mA / °C		
Reverse Voltage	V_{R}	5.0	V		
Operating Temperature	T _{opr}	-30 to +80	°C		
Storage Temperature	T _{stg}	-40 to +100	°C		
Lead Soldering Temperature (1.6mm (0.063") from body)	260°C for 5 seconds				

ELECTRICAL / OPTICAL CHARACTERISTICS (at $T_A = 25^{\circ}C$)

Parameter		Symbol	MIN	TYP	MAX	Unit
Forward Voltage	I F= 20 mA	VF		2.2	2.60	٧
Luminous Intensity	I F= 20 mA	Ιv	680	1900	2500	mcd
Dominant Wavelength	I F= 20 mA	λd		590		nm
Spectrum Radiation Bandwidth	I F= 20 mA	Δλ		20		nm
Reverse Current	V R= 5 V	I _R			50	μА
Viewing Angle Major Axis X		2 θ 1/2		70		deg
Viewing Angle Minor Axis Y		2 θ 1/2		35		deg

GENERAL NOTES:

- 1. Luminous Intensity (Iv) is measured with a light sensor and filter combination (goniospectroradiometer) and is the Luminous Flux per unit solid angle (steradian) emitted by the LED lamp in the direction of the mechanical axis of the lamp and then weighed by the eye response curve (1931 CIE 2° Observer Chromaticity Diagram).
- 2. Luminous Intensity measurement uncertainty is +/- 15% due to test procedures and equipment variations.
- 3. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity. Tolerance +/- 3°.
- 4. Dominant wavelength is derived from the 1931 CIE 2° Observer Chromaticity Diagram.
- 5. Peak and Dominant wavelength measurement uncertainty is +/- 0.05 due to variations.
- 6. Caution for ESD: Static Electricity and surges can damage the LED. It is recommended using a wristband or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
- 7. Do not apply excess mechanical stress to the leads, especially when heated or while soldering.



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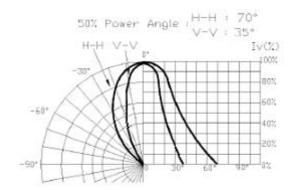
PL-LTAM5V70D series

LUMINOUS INTESITY RANKS

(mcd at 20mA)

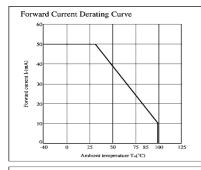
Rank	Min	Max
Р	880	1150
Q	1150	1500
R	1500	1900
S	1900	2500

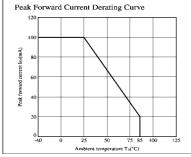
BEAM RADIATION PATTERNS

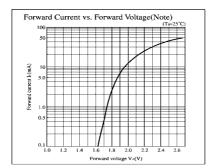


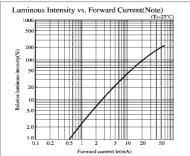
TYPICAL ELECTRICAL CHARACTERISTICS CURVES

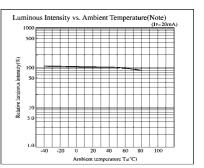
(at 20 mA DC / $T_A = 25$ °C)

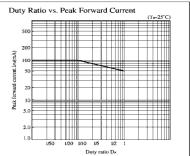












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PRODUCT CODE BREAKDOWN

