



ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.

SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	A	RELEASED	EO	6/7/06	YA	6/19/06	HO	6/19/06



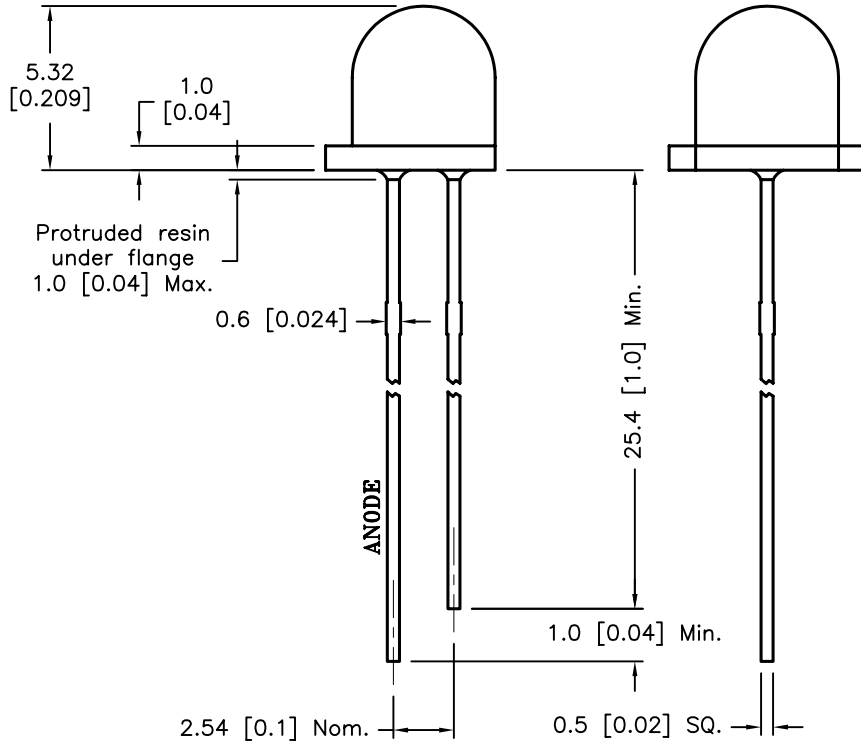
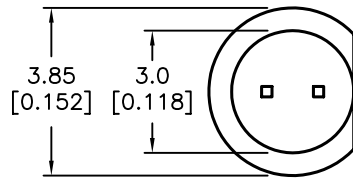
Features:

- High intensity
- Standard 3mm T-1 diameter package
- General purpose LED
- Reliable and rugged

Source Color	Chip Material	Lens Color
Red	GaAsP	Diffused

Specifications:

- Lead spacing is measured where the leads emerge from the package



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature [4mm (0.157) From Body]	260°C for 5 seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Typ.	Max	Unit	Test Condition
Luminous Intensity	I _v	45		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}	60		Deg	(Note 2)
Peak Emission Wavelength	λ _p	640		nm	I _f =20mA
Dominant Wavelength	λ _d	635		nm	I _f =20mA (Note 3)
Forward Voltage	V _f	1.9	2.5	V	I _f =20mA
Reverse Current	I _R	---	100	μA	V _R =5V

Notes:

- 1- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2- θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3- The x and y parameters correspond to the CIE 1931 Chromaticity

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

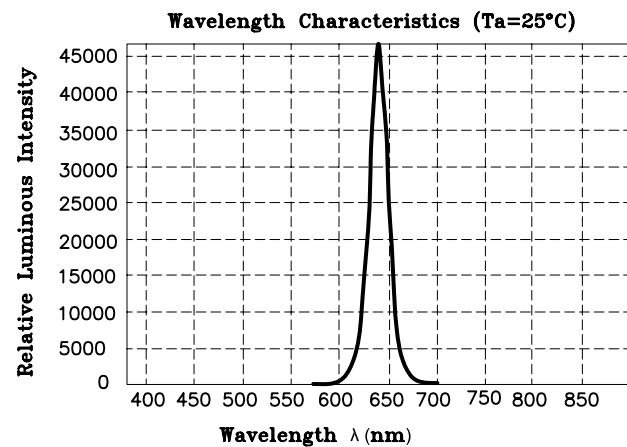
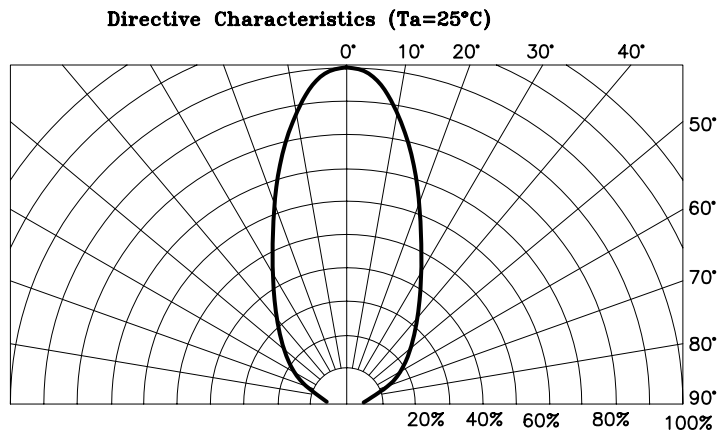
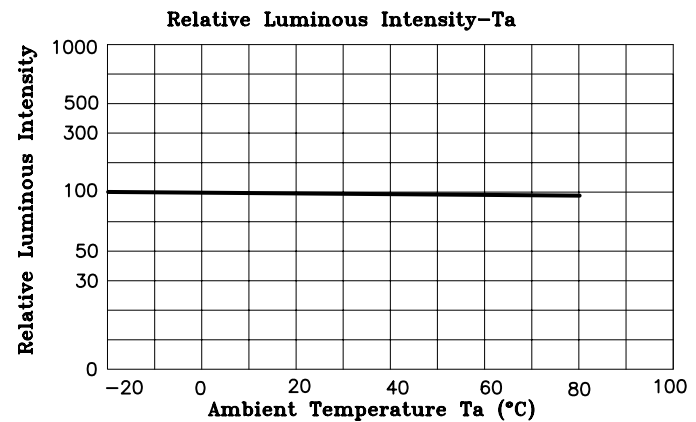
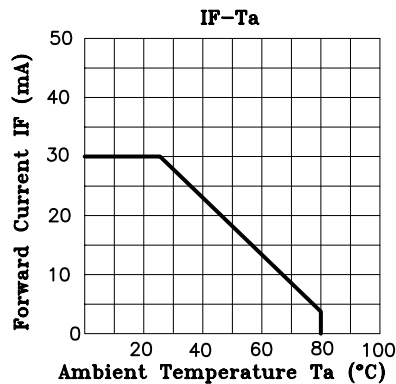
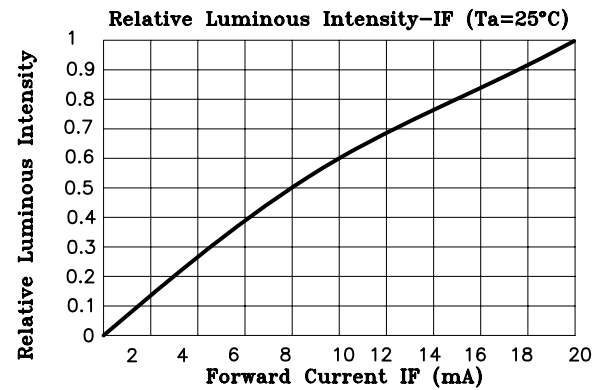
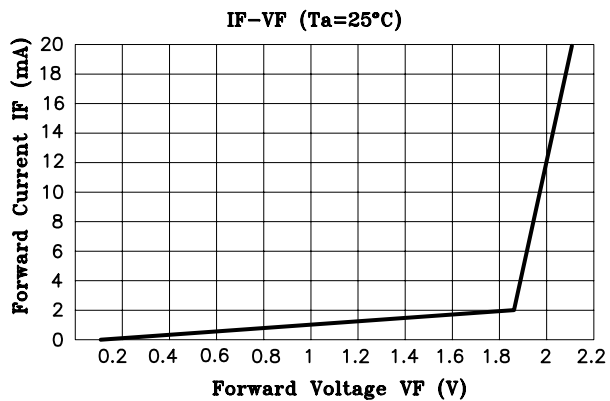
TOLERANCES:

UNLESS OTHERWISE SPECIFIED,
±0.25 [±0.010]

DRAWN BY:	DATE:
EKLAS ODISH	6/7/06
CHECKED BY:	DATE:
YILMAZ AKYONDEM	6/19/06
APPROVED BY:	DATE:
HISHAM ODISH	6/19/06

DRAWING TITLE:
Standard LED, Round Lens, 3mm (T1), Red Emitting Color

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	HLMP1301	87K6974.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 2	



ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.

SIZE DWG. NO.

ELECTRONIC FILE

REV

A

HLMP1301

87K6974.DWG

A