

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.

٧,	REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398						
	DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
	1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	НО	6/19/06	





Compliant

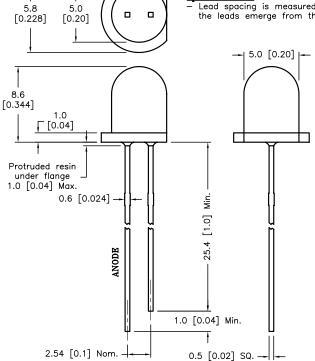
Features:

- High intensity
   Standard T-1 3/4 diameter package
   General purpose LED
   Reliable and rugged

Source Color	Chip Material	Lens Color
Red	AlInGaP/GaP	Water Clear



Lead spacing is measured where the leads emerge from the package



## Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	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 fo	r 5 seconds

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>		1000		mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		30		Deg	(Note 2)
Peak Emission Wavelength	λр		640		nm	I <sub>f</sub> =20mA
Dominant Wavelength	λd		635		nm	$I_f$ =20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I <sub>f</sub> =20mA
Forward Voltage	$V_{f}$		2.2	2.6	٧	I <sub>f</sub> =20mA
Reverse Current	$\mathbf{I}_{R}$			100	μΑ	V <sub>R</sub> =5V

## Notes:

- 1 Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye—response curve.
  2— 0<sub>1/2</sub> is the off—axis angle at which the luminous intensity is half the axial luminous intensity
- 3— The dominant wavelength ( $\lambda d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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 INTENDEO USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

TOLERANCES:

	DRAWN BY:	DATE:	DRAW	ING TITLE:						
ı	EKLAS ODISH	6/7/06	:	Super Bright	3/4),	l), Red Emitting Color				
	CHECKED BY:	DATE:	SIZE	DWG. NO.		ELEC	TRONIC FIL	.E	REV	
	YILMAZ AKYONDEM	6/19/06	A		87	7K7115.	DWG	A		
	APPROVED BY:	Y: DATE:			 					
	HISHAM ODISH	6/19/06	SCAL	E: NTS	U.O.M.: mm [INCHES]	J	SHEET:	1 OF	- 2	

