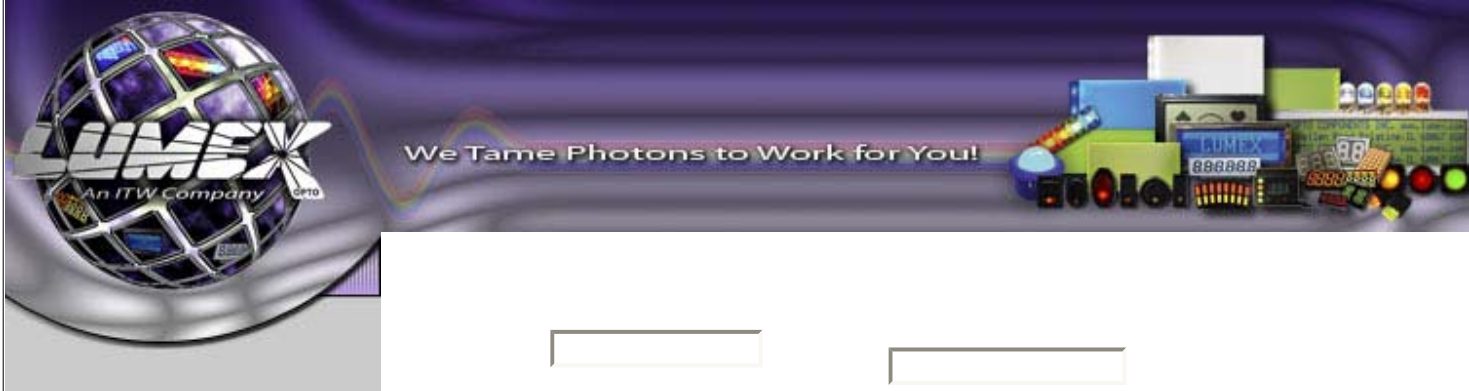




Products > LEDs > Surface Mount > OctoLED 1505 Package



Features / Options

- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

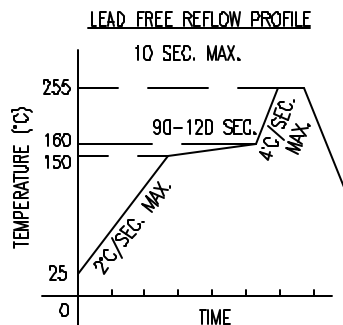
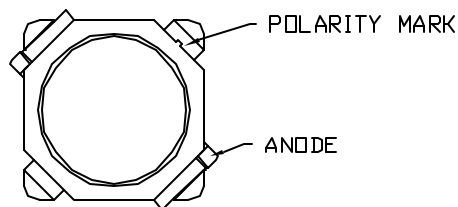
Applications / Uses

- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

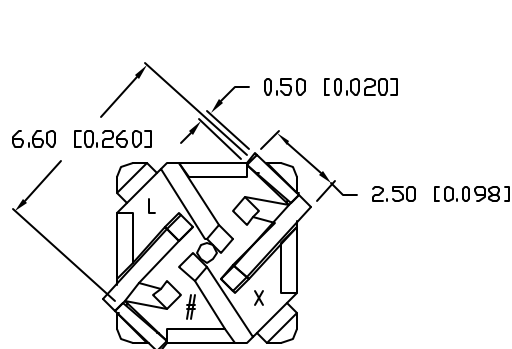
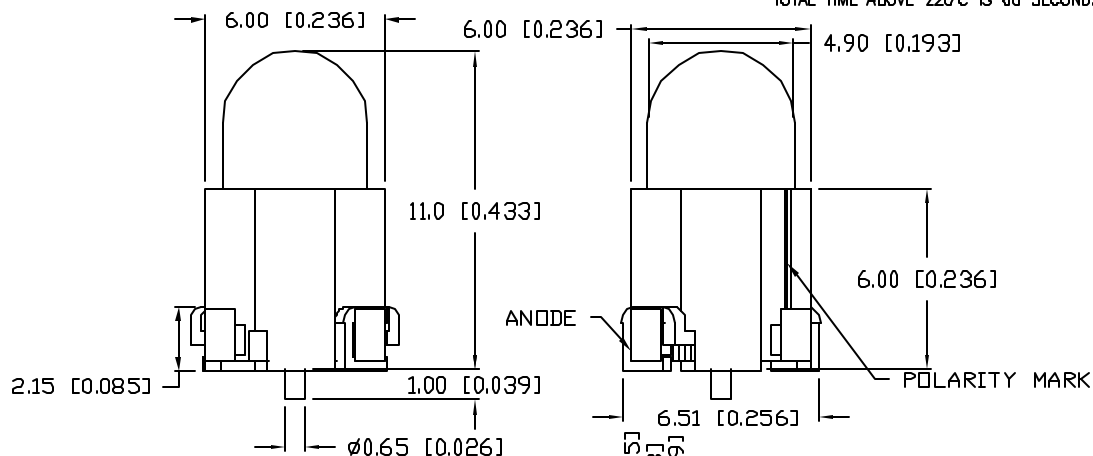
Part Number:		Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SML-H1505SIC-TR		HIGH	AlInGaP	Red	635	Clear	2.0	700	60		—
SML-H1505SID-TR		HIGH	AlInGaP	Red	635	Diffused	2.0	460	65		—
SML-H1505SIUPGUSBC		HIGH	AlInGaP/InGaN/InGaN	RGB	635/525/470	Clear	2.0/3.4/3.4	1100/600/2200	70		—
SML-H1505SIUPGUSBW		HIGH	AlInGaP/InGaN/InGaN	RGB	635/525/470	Milky	2.0/3.4/3.4	1100/600/2200	60		—
SML-H1505SOC-TR		HIGH	AlInGaP	Amber	610	Clear	2.0	1500	68		—
SML-H1505SOD-TR		HIGH	AlInGaP	Amber	610	Diffused	2.0	1000	75		—
SML-H1505SUGC-TR		HIGH	AlInGaP	Green	574	Clear	2.2	200	68		—
SML-H1505SUGD-TR		HIGH	AlInGaP	Green	574	Diffused	2.2	200	75		—
SML-H1505SYC-TR		HIGH	AlInGaP	Yellow	590	Clear	2.0	750	60		—
SML-H1505SYD-TR		HIGH	AlInGaP	Yellow	590	Diffused	2.0	460	70		—
SML-H1505UPGC-TR		HIGH	InGaN	Green	525	Clear	3.4	7000	45		—

UNCONTROLLED DOCUMENT

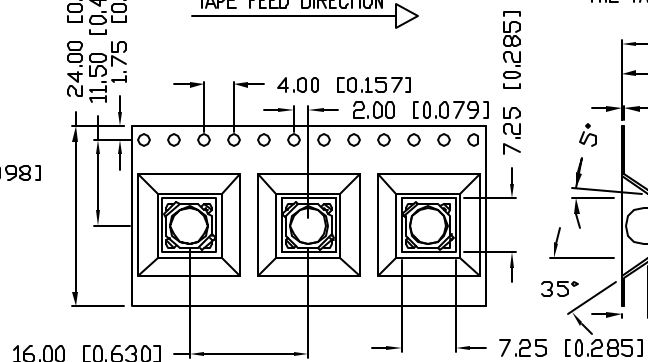
* PATENT PENDING



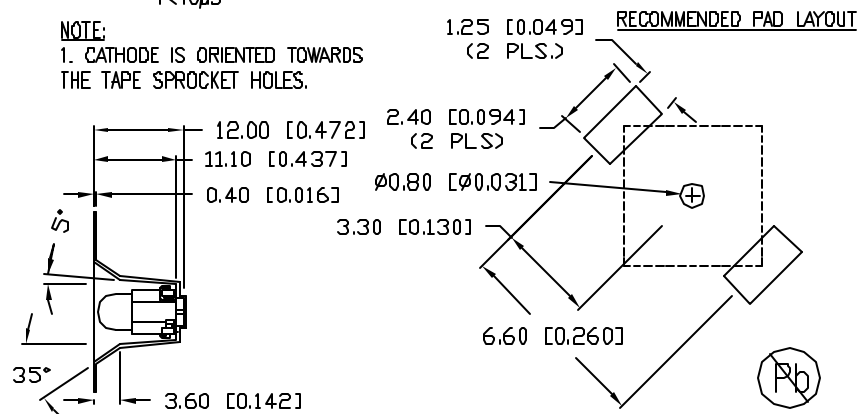
TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.



TAPE FEED DIRECTION



NOTE:
1. CATHODE IS ORIENTED TOWARDS
THE TAPE SPROCKET HOLES.



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$					
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		590		nm	
FORWARD VOLTAGE		2.0	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		750		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	YELLOW				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C PER DIE		
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	90	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-30 TO +80	°C
STORAGE TEMP.	-40 TO +100	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY	5 SEC. MAX	
* $T<10\mu\text{s}$		

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005), LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.=+DECIMAL PRECISION -0.00, MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

SML-H1505SYC-TR

5mm SURFACE MOUNTED DOME LED,
590nm SUPER YELLOW LED, WATER CLEAR.

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



DRAWN BY:

JN

CHECKED BY:

APPROVED BY:

DATE: 03.31.08

PAGE: 1 OF 1

SCALE: N/A