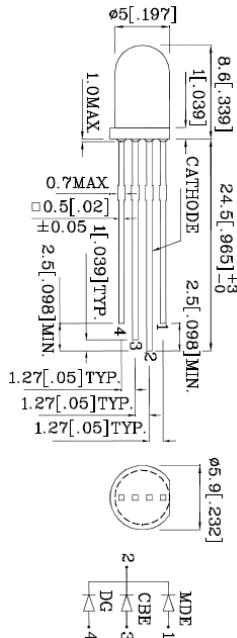


### Package Dimensions

P/N: E154A4SUREPBGVGAW  
T-1 3/4 (5mm) FULL COLOR LED LAMP



**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$ " unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm $\lambda$ P	Viewing Angle $2\theta$ 1/2
			min.	typ.		
Red	AlGaInP		380	745	640	
Blue	AlGaInN	White Diffused	110	347	468	60°
Green	InGaN		280	745	515	

Absolute Maximum Ratings (TA=25°C)		MDE (AlGa InP)	CBE (AlGa InN)	DG (InGa N)	Unit
Reverse Voltage	VR	5	5	5	V
Forward Current	IF	30	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	200	150	150	mA
Power Dissipation	PD	75	120	102.5	mW
Operating Temperature	TA	-40 ~ +85			°C
Storage Temperature	Tstg	-40 ~ +85			
Lead Solder Temperature [2mm Below Package Base]		260°C For 3 Seconds			
Lead Solder Temperature [5mm Below Package Base]		260°C For 5 Seconds			

Operating Characteristics (TA=25°C)		MDE (AlGa InP)	CBE (AlGa InN)	DG (InGa N)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	1.9	3.3	3.3	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	4.0	4.1	V
Reverse Current (Max.) (VR=5V)	IR	10	10	10	uA
Wavelength Of Peak Emission (Typ.) (IF=20mA)	$\lambda$ P	640	468	515	nm
Wavelength Of Dominant Emission (Typ.) (IF=20mA)	$\lambda$ D	630	470	525	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	$\Delta\lambda$	25	25	30	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	45	100	45	pF