

T-1 3/4(5mm) BI-COLOR INDICATOR LAMP

PRELIMINARY SPEC

W5A9EGW12.3SF

HIGH EFFICIENCY RED **GREEN**

Features

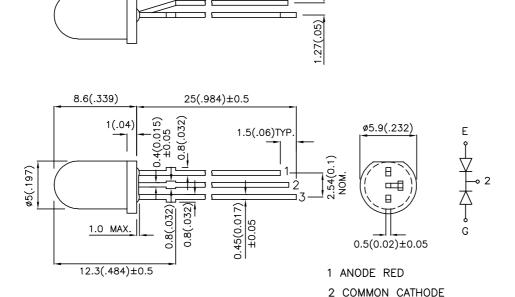
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON LEAD.
- ●I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- ●RoHS COMPLIANT.

Description

The High Efficiency Red source color devices are made With Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
 Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

SPEC NO: DSAE9975 **REV NO: V.1** DATE: FEB/03/2005 PAGE: 1 OF 3 APPROVED: J. Lu CHECKED: Allen Liu DRAWN: Y.W.WANG ERP:1104000807

3 ANODE GREEN

Kingbright

Selection Guide

W	Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
				Min.	Тур.	2 θ 1/2
	W5A9EGW12.3SF	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	18	55	40°
		GREEN (GaP)	WHITE DIFFUSED	18	55	

Note:

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Green	627 565		nm	I _F =20mA
λD	Dominant Wavelength	High Efficiency Red Green	625 568		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I _F =20mA
С	Capacitance	High Efficiency Red Green	15 15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	All		10	uA	V _R = 5V

Absolute Maximum Ratings at Ta=25°C

Parameter	High Efficiency Red	Green	Units		
Power dissipation	105	105	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	5	5	V		
Operating/storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

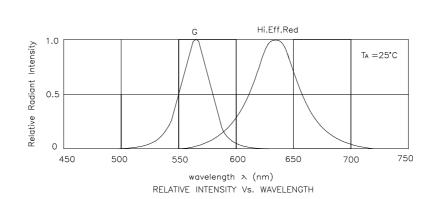
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

SPEC NO: DSAE9975 REV NO: V.1 DATE: FEB/03/2005 PAGE: 2 OF 3

APPROVED: J. Lu CHECKED: Allen Liu DRAWN: Y.W.WANG ERP:1104000807

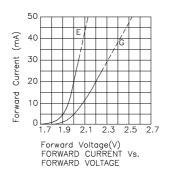
 $^{1. \, \}theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

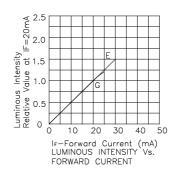
Kingbright

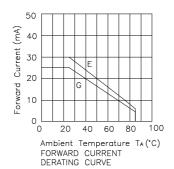


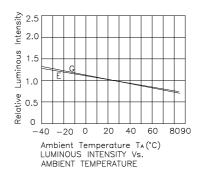
High Efficiency Red / Green

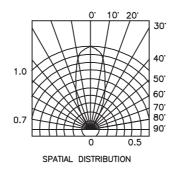
W5A9EGW12.3SF











 SPEC NO: DSAE9975
 REV NO: V.1
 DATE: FEB/03/2005
 PAGE: 3 OF 3

 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: Y.W.WANG
 ERP:1104000807