## SUBMINIATURE SOLID STATE LAMP

AM27ID08 HIGH EFFICIENCY RED

#### Features

•SUBMINIATURE PACKAGE.

- •WIDE VIEWING ANGLE.
- •YOKE LEAD.
- •LONG LIFE-SOLID STATE RELIABILITY.
- •LOW PACKAGE PROFILE.

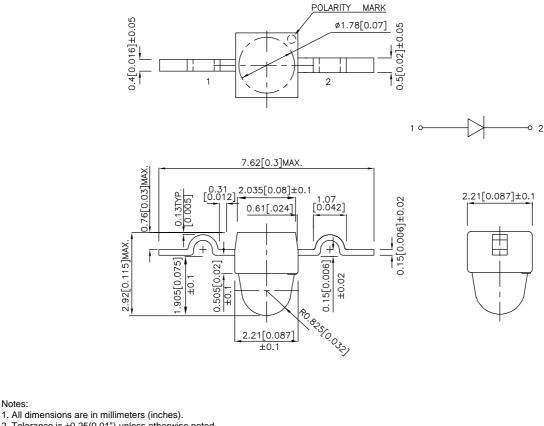
•PACKAGE : 1000PCS / REEL.

•RoHS COMPLIANT.

### Description

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

### **Package Dimensions**



#### 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Lead spacing is measured where the lead emerge from the package.

4. Specifications are subject to change without notice.

SPEC NO: DSAD1308 **APPROVED: J. Lu** 

Notes:

**REV NO: V.2 CHECKED:** Allen Liu DATE: MAR/09/2005 **DRAWN: S.H.CHEN** 

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Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle		
			Min.	Тур.	201/2		
AM27ID08	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	7	30	40 <b>°</b>		

Note:

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

## Electrical / Optical Characteristics at TA=25°C

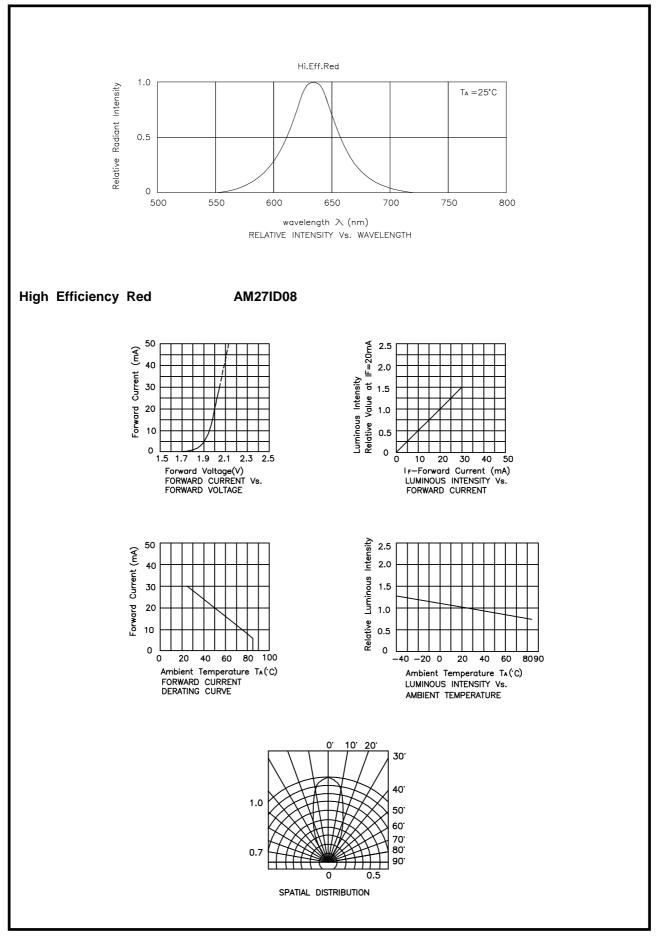
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR = 5V

### Absolute Maximum Ratings at TA=25°C

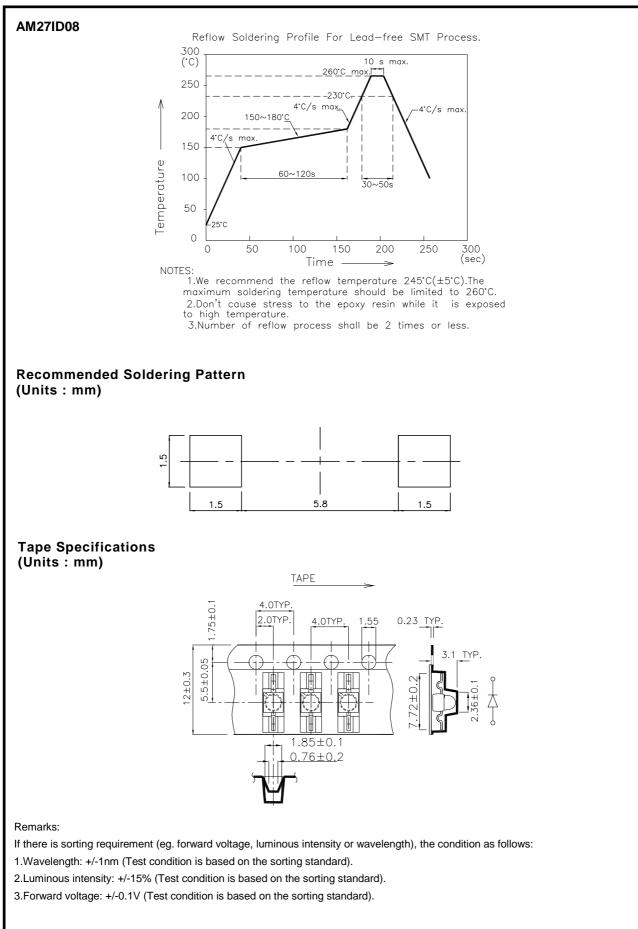
Parameter	High Efficiency Red	Units	
Power dissipation	105	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating / storage Temperature	-40°C To +85°C		

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



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