SUBMINIATURE SOLID STATE LAMP

AM27ID03

HIGH EFFICIENCY RED

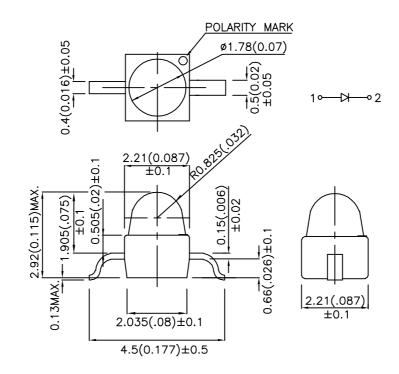
Features

- •SUBMINIATURE PACKAGE.
- •GULL WING.
- •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



Notes:

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

SPEC NO: DSAB1967 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/08/2005 DRAWN: Y.CHENG PAGE: 1 OF 4 ERP: 1202000261

Selection Guide									
Part No.	Dice	Lens Type	lv (n @ 2	,	Viewing Angle				
			Min.	Тур.	2 0 1/2				
AM27ID03	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	7	30	40 °				

Note:

1. θ 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

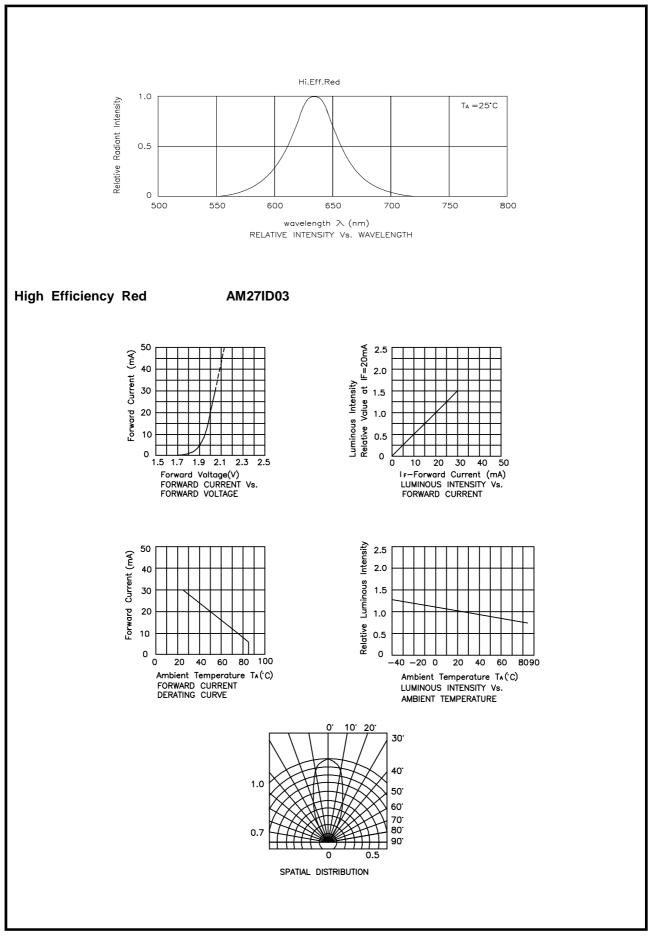
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
Vf	Forward 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

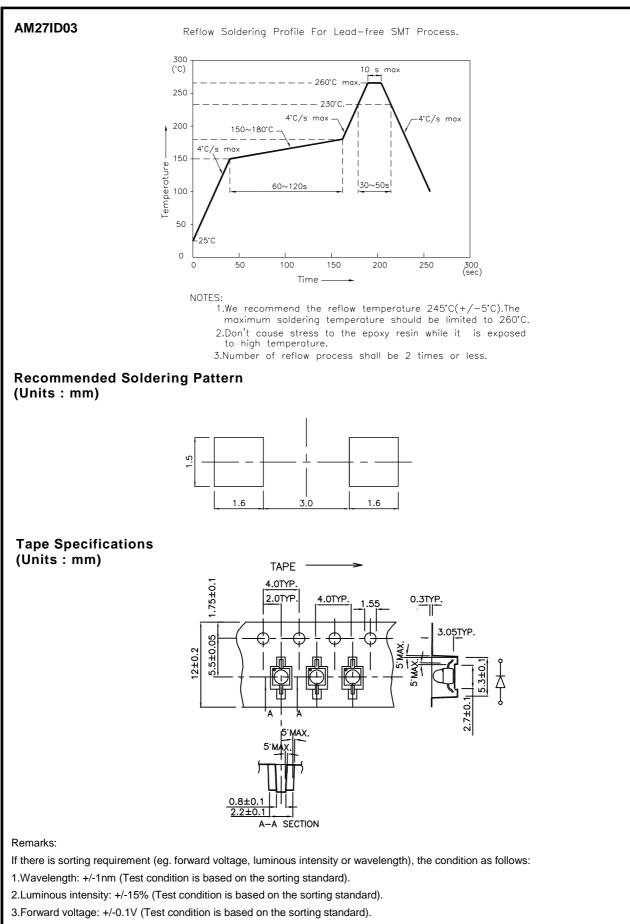
Parameter	High Efficiency Red	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating/Storage Temperature -40°C To +85°C		

Note:

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



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