SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520EC03

High Efficiency Red

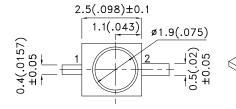
Features

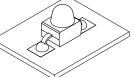
- Subminiature package.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package : 1000pcs / reel.
- RoHS compliant.

Description

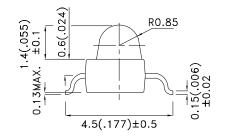
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

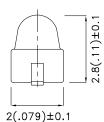
Package Dimensions





10 -17--0 2





Notes:

- 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.
 Specifications are subject to change without notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAD1254 APPROVED: WYNEC

REV NO: V.7 CHECKED: Allen Liu DATE: MAR/31/2009 DRAWN: X.M.He



ERP: 1202000459

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM2520EC03	High Efficiency Red (GaAsP/GaP)	WATER CLEAR	10	70	20°

Notes:

1. 61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
 Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

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

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

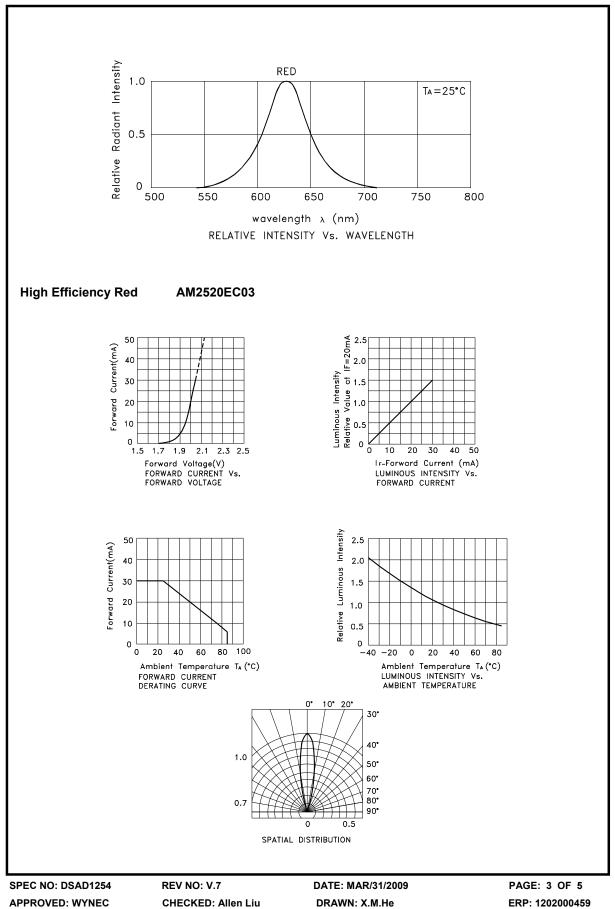
Note:

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

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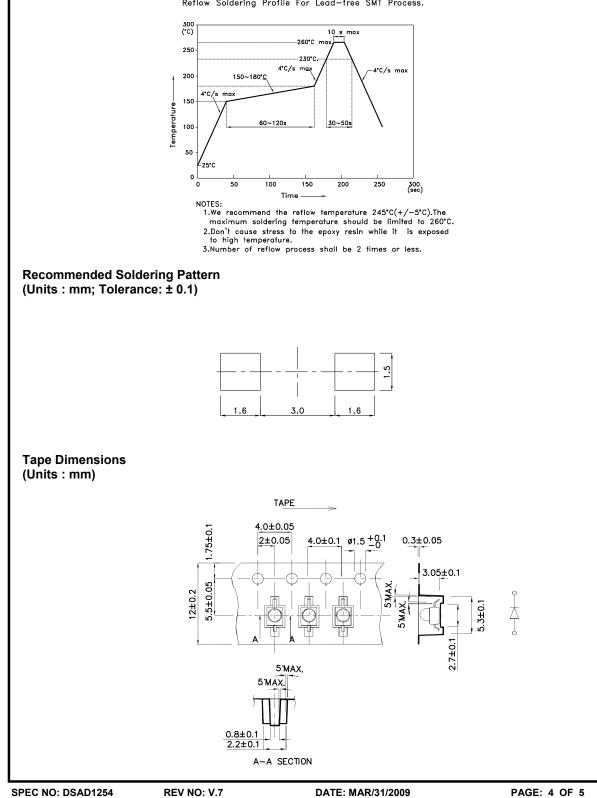
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.





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