SOT-23 SURFACE MOUNT LED LAMP

Part Number: AM23EC-F

High Efficiency Red

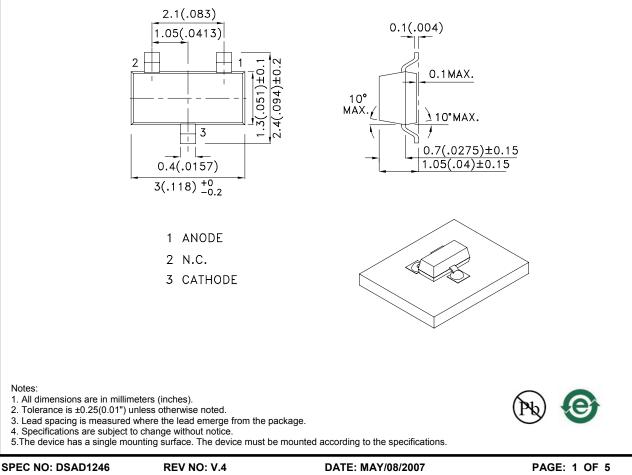
Features

- SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- LOW POWER CONSUMPTION.
- LONG LIFE SOLID STATE RELIABILITY.
- PACKAGE: 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- 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



APPROVED: WYNEC

Notes:

CHECKED: Allen Liu

DRAWN: Y.L.LI

ERP: 1202000002

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. AM23EC-F High Efficiency Red (GaAsP/GaP) WATER CLEAR 4 15 140°

Notes:

θ1/2 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	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	I⊧=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR=5V

Notes:

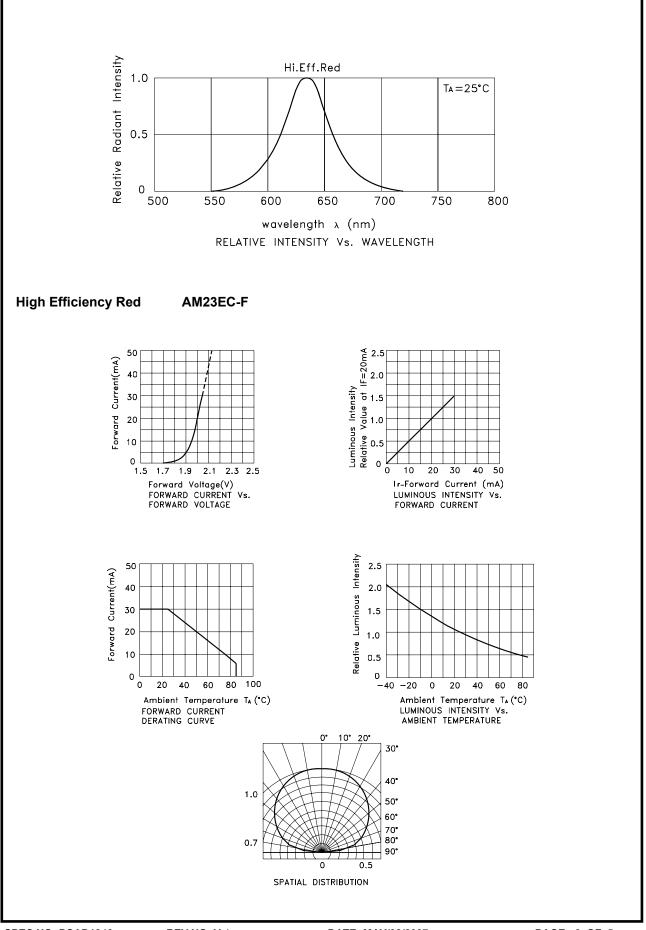
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red			
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			

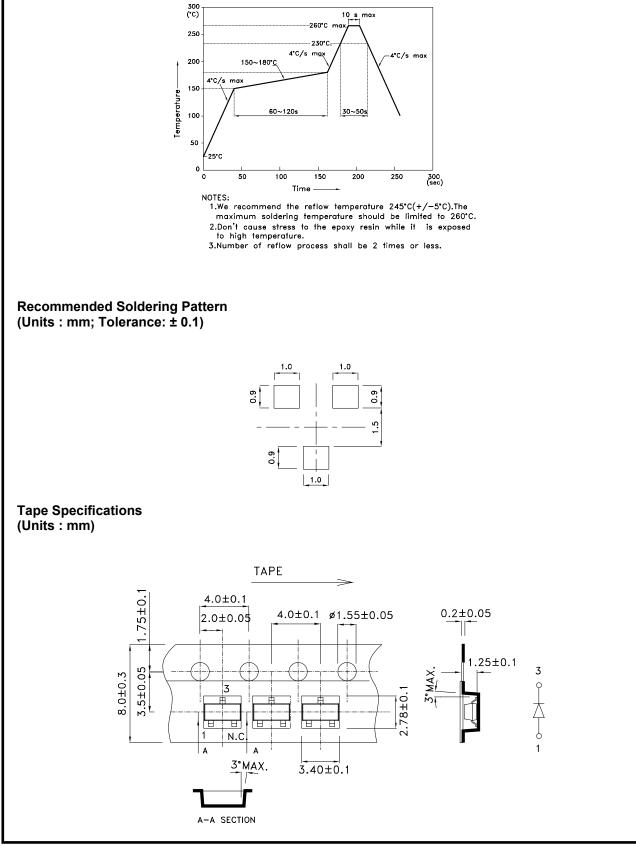
Note:

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





Reflow Soldering Profile For Lead-free SMT Process.



REV NO: V.4 CHECKED: Allen Liu DATE: MAY/08/2007 DRAWN: Y.L.LI

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