

AM23YC-F

SOT-23 Surface Mount LED Lamp



DESCRIPTION

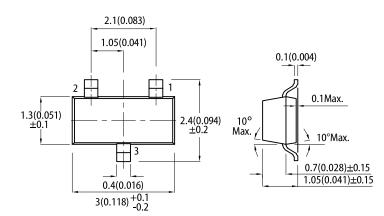
• The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode

FEATURES

- SOT-23 package surface mount LED lamp
- Low power consumption
- · Long life solid state reliability
- Package: 2000 pcs / reel
- Moisture sensitivity level: 3
- RoHS compliant

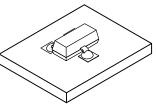
APPLICATIONS

- Backlight
- · Status indicator
- · Home and smart appliances
- · Wearable and portable devices
- Healthcare applications



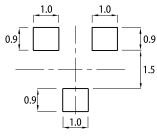


PACKAGE DIMENSIONS



RECOMMENDED SOLDERING PATTERN

(units : mm; tolerance : ± 0.1)



Notes

1. All dimensions are in millimeters (inches).

Tolerance is ±0.25(0.01") unless otherwise noted.
 Lead spacing is measured where the lead emerge from the package.

4. The specifications, characteristics and technical data described in the datasheet are subject to change

without prior notice. 5.The device has a single mounting surface. The device must be mounted according to the specifications.

SELECTION GUIDE

Part Number	Emitting Color (Material)	Lens Type	lv (mcd) @ 20mA ^[2]		Viewing Angle ^[1]
			Min.	Тур.	201/2
AM23YC-F	Vellow (GaAsP/GaP)	Water Clear	3	8	170°

Notes

41/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. Luminous intensity / luminous flux: +/-15%.
 3. Luminous intensity value is traceable to CIE127-2007 standards.

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ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter			Тур.	Max.	Unit
Wavelength at Peak Emission I_F = 20mA	λ_{peak}	Yellow	590	-	nm
Dominant Wavelength I_F = 20mA	λ_{dom} ^[1]	Yellow	588	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Yellow	35	-	nm
Capacitance	С	Yellow	20	-	pF
Forward Voltage $I_F = 20 \text{mA}$	V _F ^[2]	Yellow	2.1	2.5	V
Reverse Current ($V_R = 5V$)	I _R	Yellow	-	10	μΑ

Notes:

Notes:
 The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd : ±1nm.)
 Forward voltage: ±0.1V.
 Wavelength value is traceable to CIE127-2007 standards.
 Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

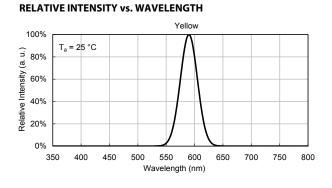
ABSOLUTE MAXIMUM RATINGS at T_A=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	75	mW
Reverse Voltage	V _R	5	V
Junction Temperature	Tj	110	°C
Operating Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
DC Forward Current	IF	30	mA
Peak Forward Current	۱ _{FM} ^[1]	140	mA
Electrostatic Discharge Threshold (HBM)	-	8000	V

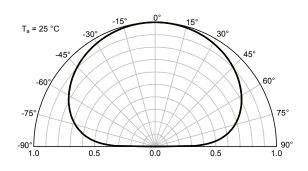
Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

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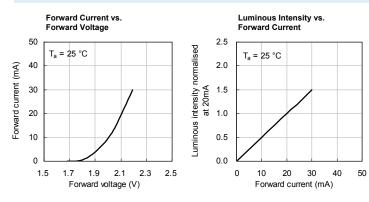
TECHNICAL DATA

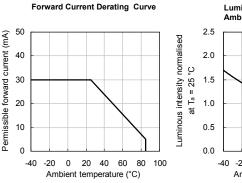


SPATIAL DISTRIBUTION

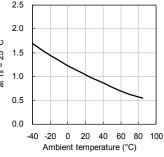


YELLOW

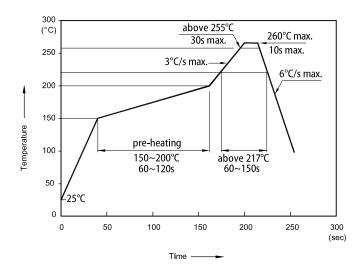




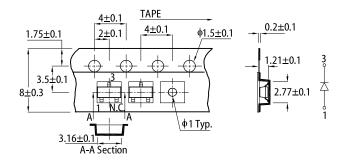
Luminous Intensity vs. Ambient Temperature



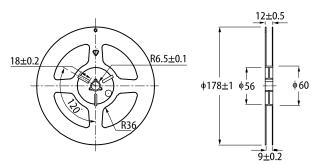
REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS



TAPE SPECIFICATIONS (units : mm)



REEL DIMENSION (units : mm)



Notes:

- Don't cause stress to the LEDs while it is exposed to high temperature.
 The maximum number of reflow soldering passes is 2 times.
 Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product.

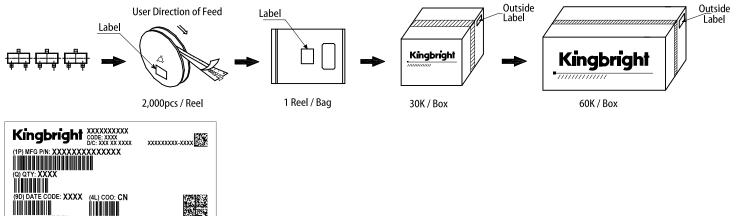
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PACKING & LABEL SPECIFICATIONS

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