

AM23SYD-F SUPER BRIGHT YELLOW

AM23SYC-F SUPER BRIGHT YELLOW

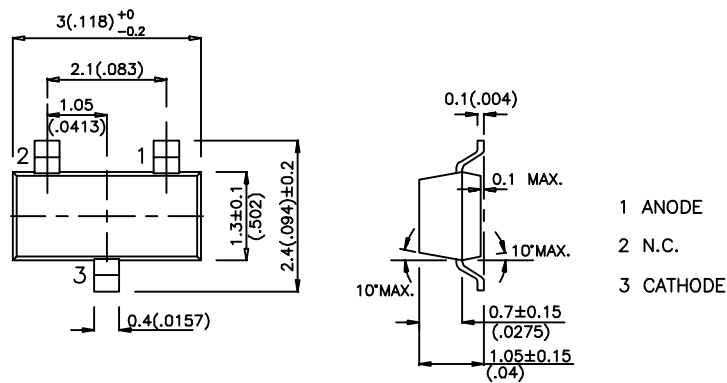
Features

- SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- LOW POWER CONSUMPTION.
- LONG LIFE - SOLID STATE RELIABILITY.

Description

The Super Bright Yellow source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ " unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
AM23SYD-F	SUPER BRIGHT YELLOW (InGaAlP)	YELLOW DIFFUSED	40	80	140°
AM23SYC-F	SUPER BRIGHT YELLOW (InGaAlP)	WATER CLEAR	40	80	140°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

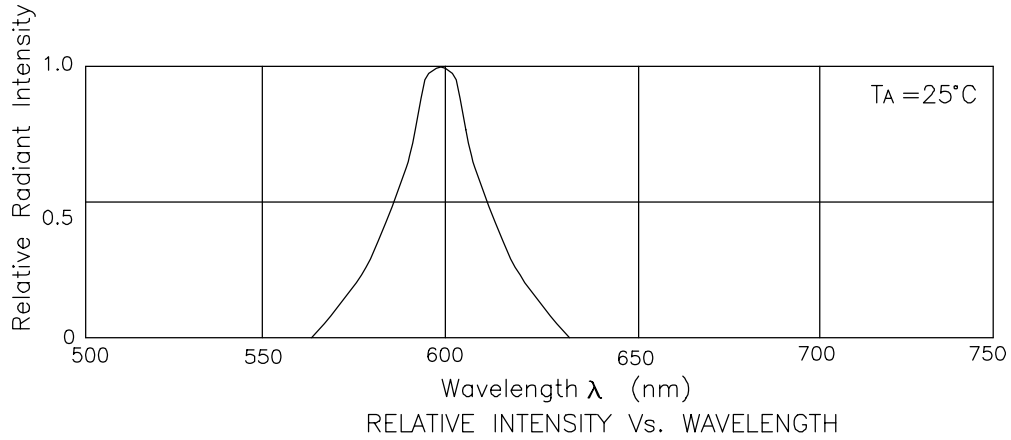
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Yellow	590		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Super Bright Yellow	20		nm	IF=20mA
C	Capacitance	Super Bright Yellow	33		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Super Bright Yellow	2.0	2.4	V	IF=20mA
I _R	Reverse Current	All		10	μA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

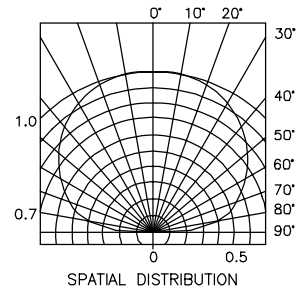
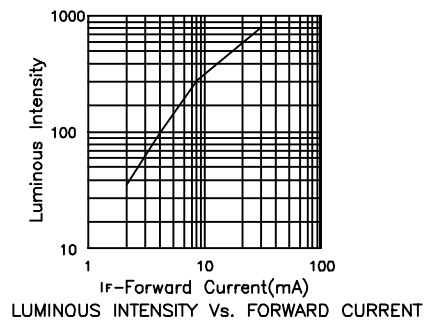
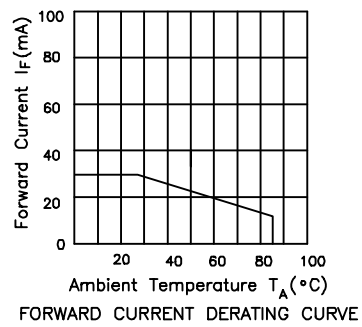
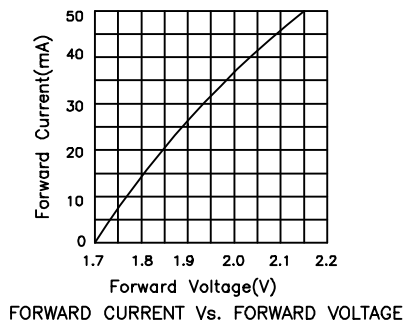
Parameter	Super Bright Yellow	Units
Power dissipation	125	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

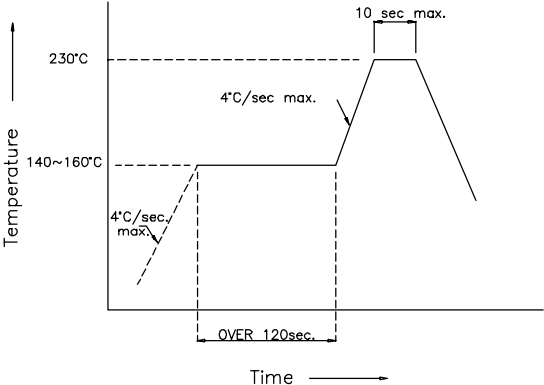
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Super Bright Yellow AM23SYD-F, AM23SYC-F

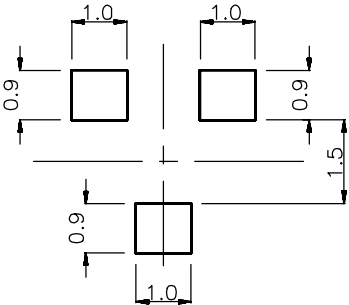


AM23SY-F SERIES SMT Reflow Soldering Instructions



AM23SY-F SERIES Recommended Soldering Pattern(Units : mm)

FOR REFLOW SOLDERING



AM23SY-F SERIES Tape Specifications (Units : mm)

