

AM23ESGC

AM23ESGW

Features

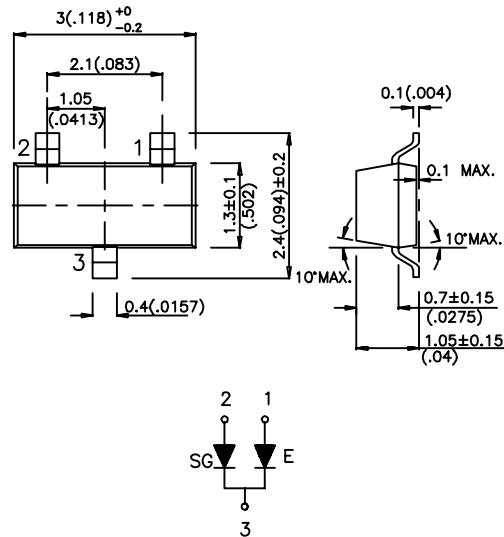
- SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- LOW POWER CONSUMPTION.
- BOTH SINGLE CHIP AND TWO CHIPS VERSION ARE AVAILABLE.
- LONG LIFE - SOLID STATE RELIABILITY.

Description

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

The Super Bright Green source color devices are made with Gallium Phosphide Green 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	I _v (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
AM23ESGC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	5	15	140°
	SUPER BRIGHT GREEN (GaP)		5	15	
AM23ESGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	5	15	140°
	SUPER BRIGHT GREEN (GaP)		5	15	

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

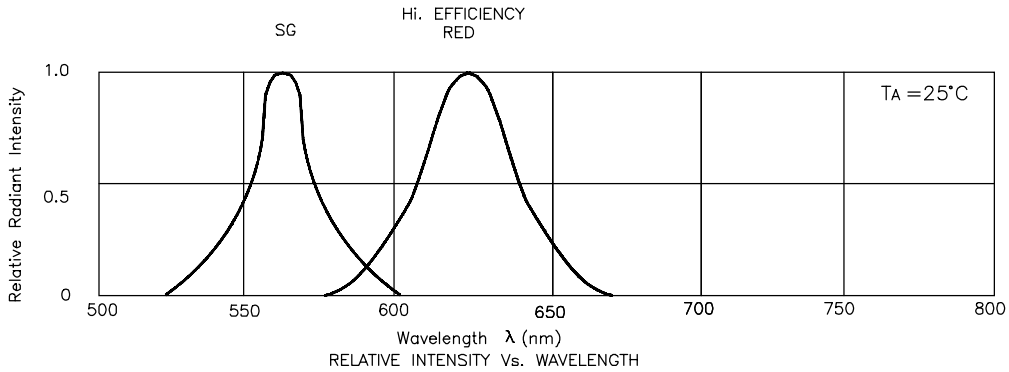
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Efficiency Red Super Bright Green	625 565		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	High Efficiency Red Super Bright Green	45 30		nm	IF=20mA
C	Capacitance	High Efficiency Red Super Bright Green	45 30		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Super Bright Green	2.0 2.2	2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	μA	V _R = 5V

Absolute Maximum Ratings at T_A=25°C

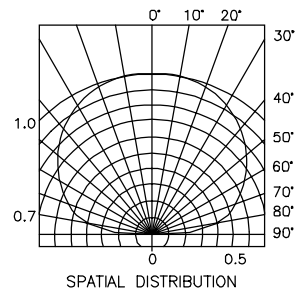
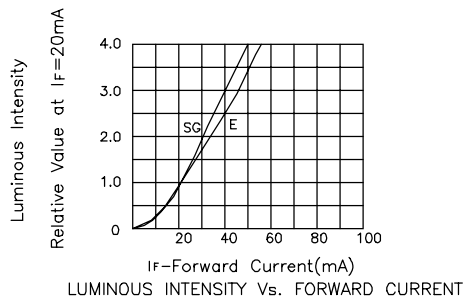
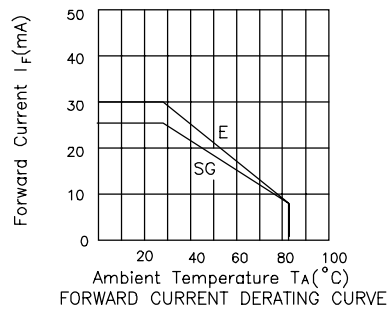
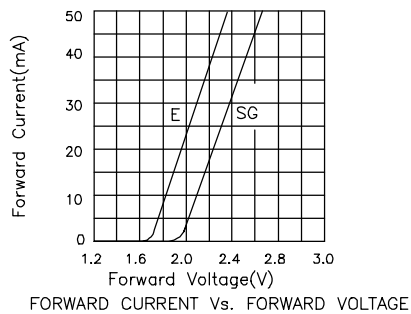
Parameter	High Efficiency Red	Super Bright Green	Units
Power dissipation	105	105	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	150	150	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		

Note:

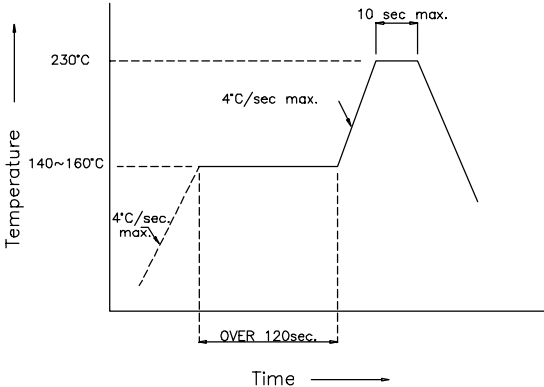
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



High Efficiency Red / Super Bright Green AM23ESGC,AM23ESGW

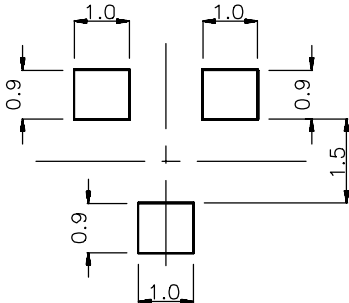


AM23ESG SERIES SMT Reflow Soldering Instructions



AM23ESG SERIES Recommended Soldering Pattern(Units : mm)

FOR REFLOW SOLDERING



AM23ESG SERIES Tape Specifications (Units : mm)

