

KM-23SGEW-CA

SUPER BRIGHT GREEN
HIGH EFFICIENCY RED

Features

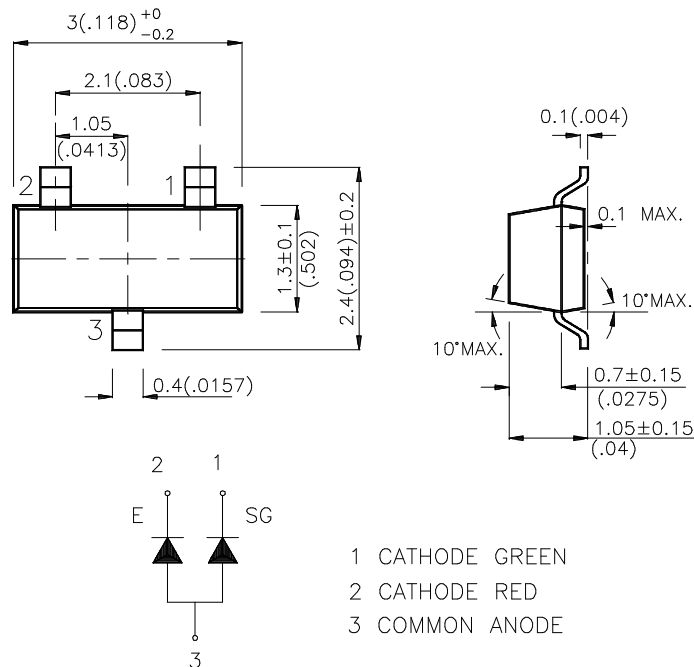
- SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- LOW POWER CONSUMPTION.
- LONG LIFE - SOLID STATE RELIABILITY.
- PACKAGE: 2000PCS / REEL.

Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange 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 subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
KM-23SGEW-CA	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	5	10	140°
	HIGH EFFICIENCY RED (GaAsP/GaP)		5	10	

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

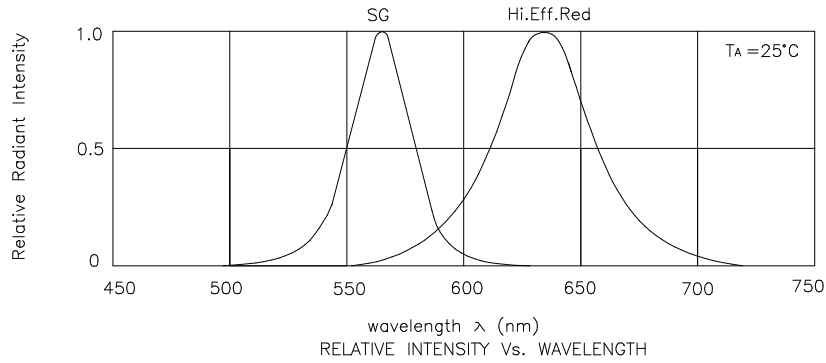
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Green High Efficiency Red	565 627		nm	I _F =20mA
λ _D	Dominate Wavelength	Super Bright Green High Efficiency Red	568 625		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Super Bright Green High Efficiency Red	30 45		nm	I _F =20mA
C	Capacitance	Super Bright Green High Efficiency Red	15 15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Super Bright Green High Efficiency Red	2.2 2.0	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	All		10	μA	V _R = 5V

Absolute Maximum Ratings at T_A=25°C

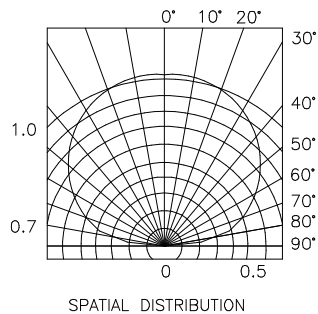
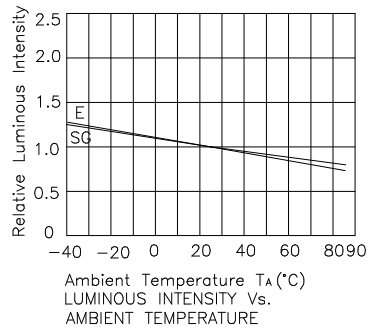
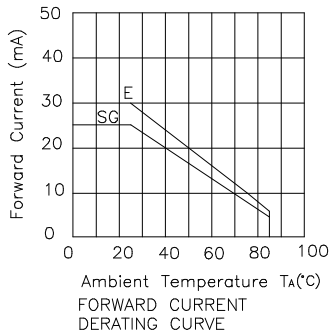
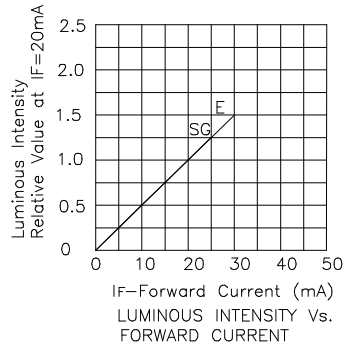
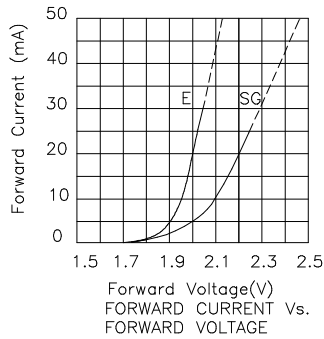
Parameter	Super Bright Green	High Efficiency Red	Units
Power dissipation	105	105	mW
DC Forward Current	25	30	mA
Peak Forward Current [1]	140	160	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		

Note:

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



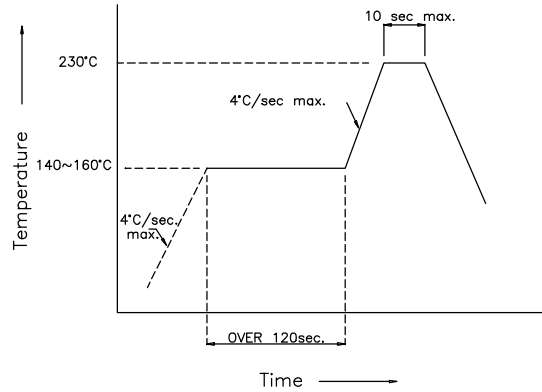
KM-23SGEW-CA Super Bright Green / High Efficiency Red



KM-23SGEW-CA

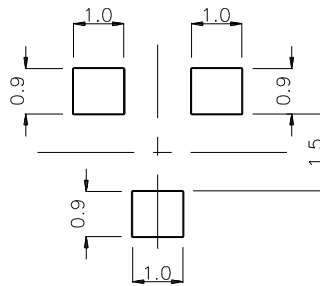
SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern

(Units : mm)



Tape Specifications

(Units : mm)

