KM-23LSGD-F SUPER BRIGHT GREEN

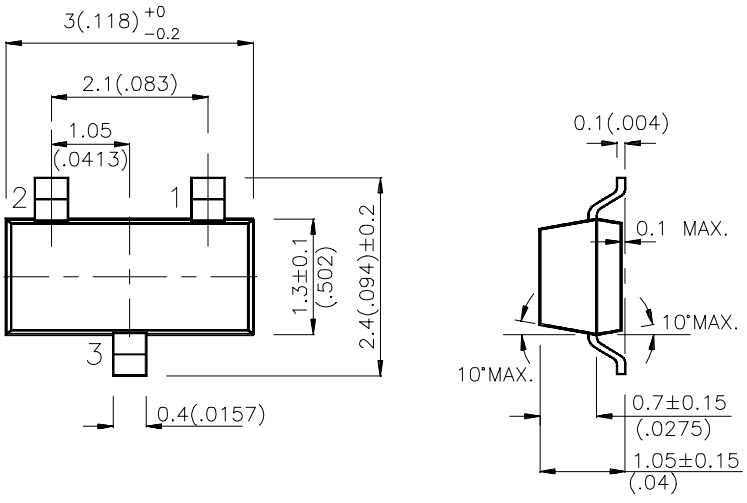
Features

- ●SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- ●LOW POWER CONSUMPTION.
- ●LONG LIFE - SOLID STATE RELIABILITY.
- ●PACKAGE: 2000PCS / REEL.
- ●LOW CURRENT IF=2mA OPERATING.

Description

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

Package Dimensions



1 ANODE

2 N.C.

3 CATHODE

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±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.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 2mA		Viewing Angle
			Min.	Typ.	2θ1/2
KM-23LSGD-F	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	0.1	0.25	140°

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

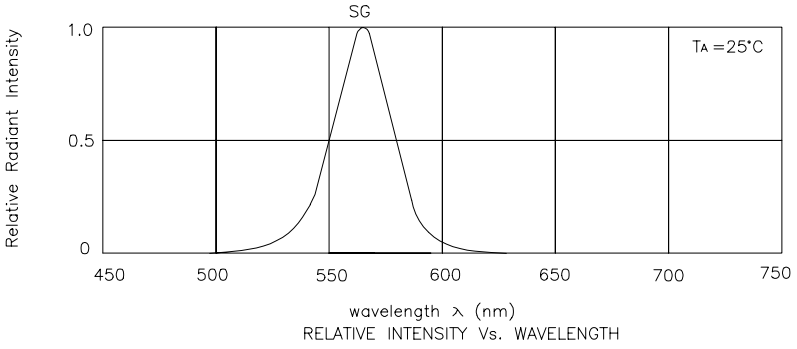
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	I_F=20mA
λ D	Dominate Wavelength	Super Bright Green	568		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	I_F=20mA
C	Capacitance	Super Bright Green	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	Super Bright Green	2.2	2.5	V	I_F=20mA
I_R	Reverse Current	Super Bright Green		10	uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

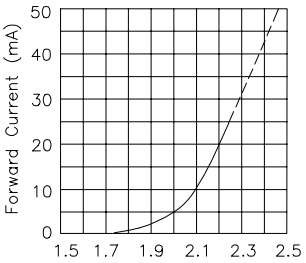
Parameter	Super Bright Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

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

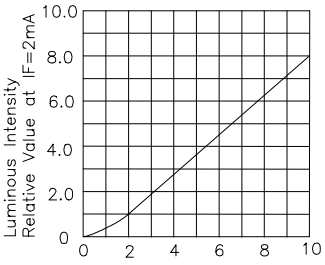


RELATIVE INTENSITY Vs. WAVELENGTH

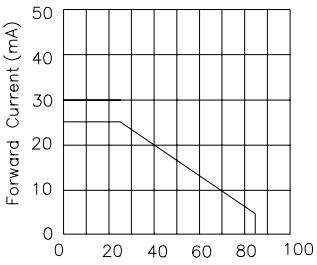
Super Bright Green KM-23LSGD-F



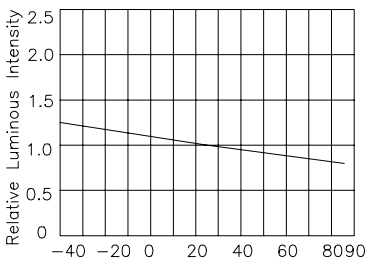
FORWARD CURRENT Vs.
FORWARD VOLTAGE



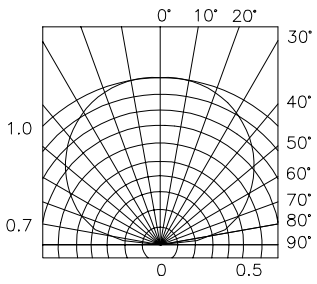
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

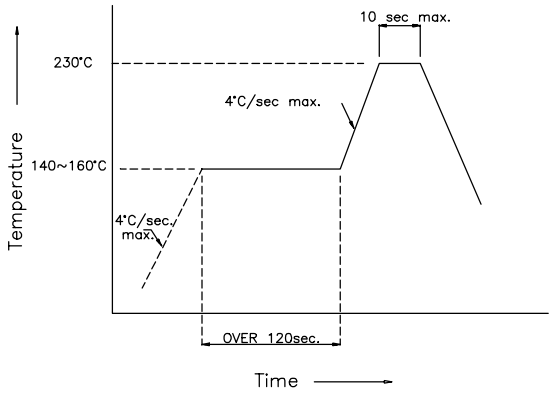


SPATIAL DISTRIBUTION

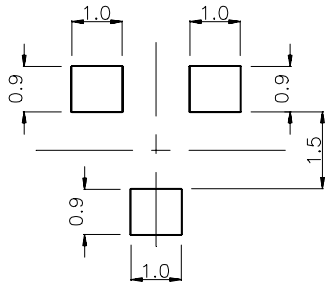
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KM-23LSGD-F
SMT Reflow Soldering Instructions

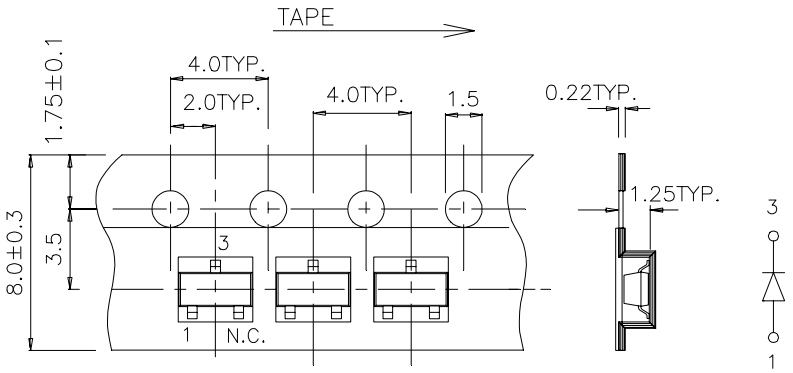
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern
(Units : mm)



Tape Specifications
(Units : mm)



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Global Electronic Components Distributor

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Kingbright Electronic:

KA-3021SYSK KP-3216SECK L-103GDT KA-3528ZGCT KPA-3010SECK L-7113ZGC L-793ID KPD-3224SECK L-113GDT WP132XGT WP59EGW/CA AA3528ZGS KP-2012SYC KPA-2106SURCK KPA-2106SYCK L-153GDT L-9294QBC-D L-934SGD L59GYW APT2012SGC KAAF-5050RGBS-13 KCSA02-101 KP-1608SYC KP-3216SYCK KPD-3224SURCK KPTD-3216MGC L-1503CB/1YD SA56-11GWA L-115VEGW TC07-11EWA