



**THE DATASHEET OF
ESS-JC190KGKT**





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DATA SHEET

ESL NO.. : ESS-JC190KGKT

CUSNO.. :

REV : A / 0

Producer: Eden

Auditor: _____

Approver: Jack

CUSTOMER'S APPROVAL : _____

DCC : _____

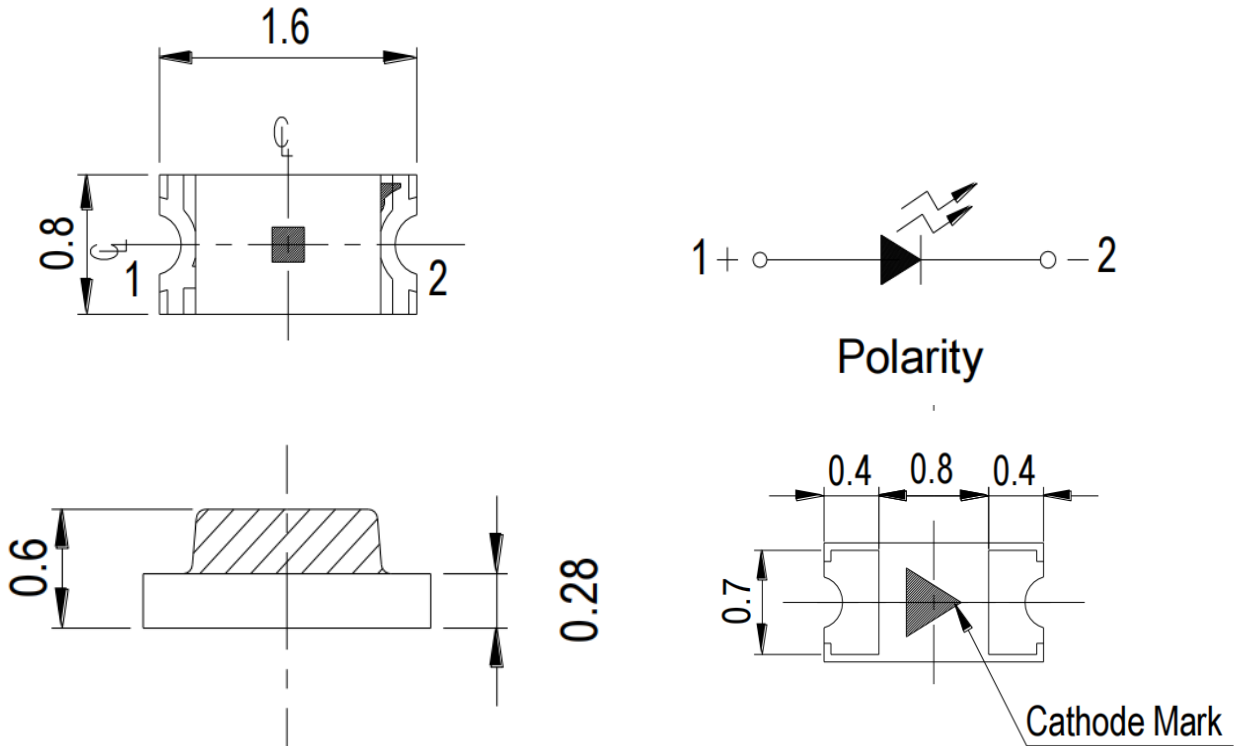


1.6×0.8×0.6mm SMD LED

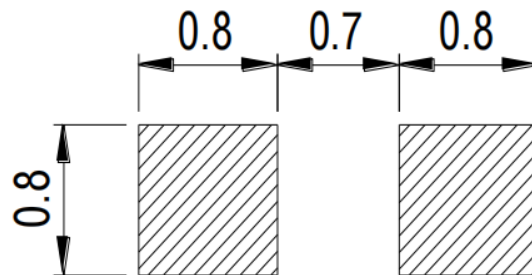
ESS-JC190KGKT

REV:A0

PACKAGE DIMENSIONS



Soldering PAD Suggested:



Note:

- 1. All Dimensions are in millimeters
- 2. Tolerance is $\pm 0.25\text{mm}(0.010\text{ ''})$ Unless otherwise specified.



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Feature:

- * High Luminous Intensity
- * Low Power Dissipation
- * good Reliability
- * Long Life

Applications:

- * household appliance
- * dashboard
- * communication equipmen

CHIP MATERIALS :

- * Dice Material:AlGaInP
- * Lens Color: Colorless transparent
- * Light Color: Green

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Symbol	DESCRIPTION	Rated	Unit
Topr	Operating Temperature Range	-30°C ~ +85°C	
Tstg	Storage Temperature Range	-40°C ~ +100°C	
VR	Reverse Voltage Per Chip	5	V
PD	Power Dissipation Per Chip	75	mW
IF	Average Forward Current Per Chip	25	mA
IFp	Peak Forward Current Per Chip	100	mA

* Positive pulse current (Duty=0.1,1KHZ)

ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

Parameter	Symbol	Condition	MIN.	TYP	MAX	UNIT	
Reverse Current	IR	VR=5V			10	μA	
Forward Voltage	VF	IF=20mA	3.0		3.4	V	
PeakWavelength	λ P		520		525	nm	
Spectrum Radiation Bandwidth	Δ λ			20		nm	
Luminous Intensity	IV		200	400		mcd	
View Angle	2θ1/2				120		deg

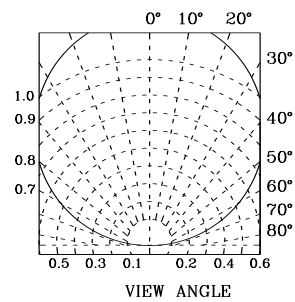
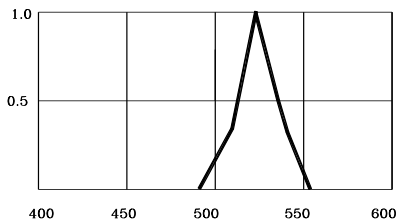
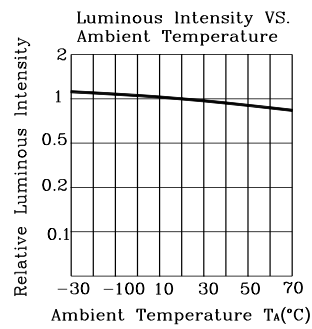
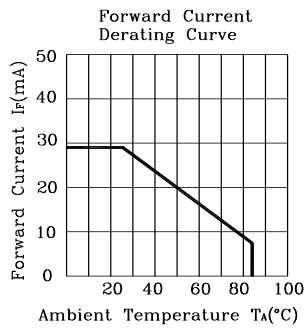
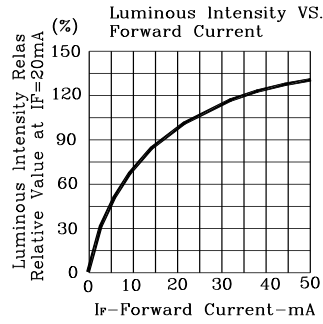
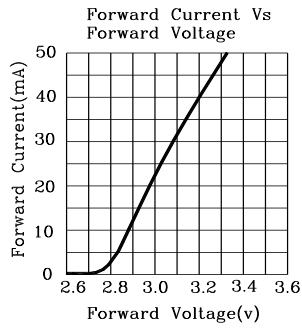


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Typical Electro-Optical Characteristics Curves





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Label Explanation:

TYPE: product model

QTY: Quantity

BIN: Rank

LOT: Lot Number

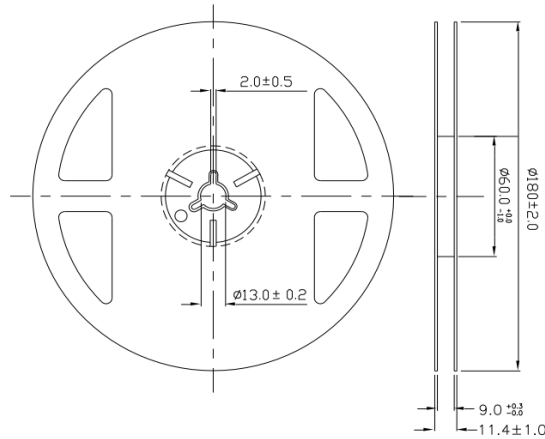
λ d: Wavelength Range

IV: Luminous Intensity Range

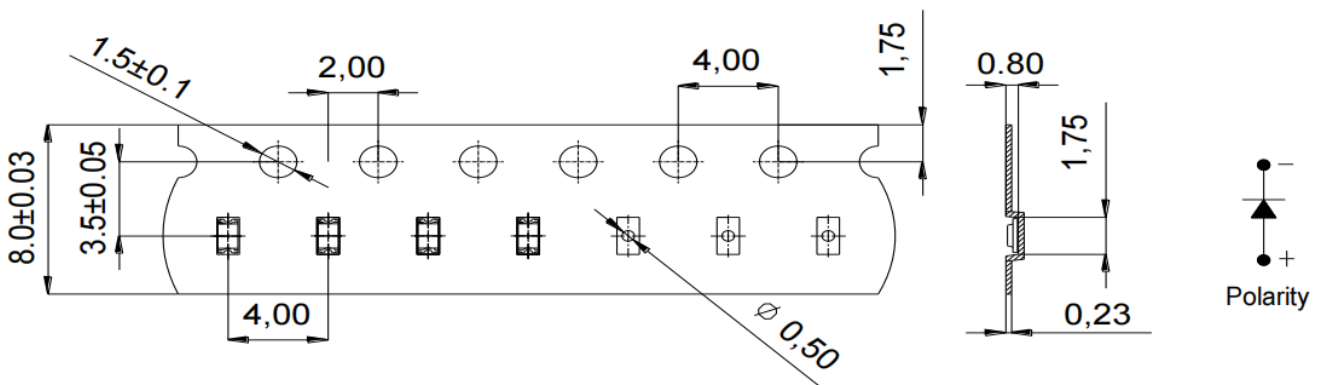
VF: Forward Voltage Rang

IF: Testing Current

Reel and Tape Dimensions: 4000PCS/Reel



Progressive direction





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Packaging:

Moisture Proof and Anti-Electrostatic Foil Bag



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2. All devices, equipment, machinery, work tables and storage racks, etc. must be properly grounded.
3. Use anti-static package or boxes to carry and storage LEDs. And ordinary plastic package or boxes is forbidden to use.
4. Use ionizer to neutralize the static charge during handling or operating.
5. All surfaces and objects within 1 ft close to LEDs measure less than 100V.

Cleaning

Use alcohol-based cleaning solvents such as IPA (isopropyl alcohol) to clean LEDs if necessary.

Soldering

1. Soldering condition refer to the draft "Soldering Profile Suggested" on page 1.
2. Reflow soldering should not be done more than 2 times.
3. Manual soldering is only suggested on repair and rework. The maximum soldering temperature should not exceed 300°C within 3 sec. And the maximum capacity of soldering iron is 30W in power.
4. During the soldering process, do not touch the lens at high temperature.
5. After soldering, any mechanical force on the lens or any excessive vibration shall not be accepted to apply, also the circuit board shall not be bent as well.

Others

1. The LEDs described here are intended to be used for ordinary electronic equipment (such as office equipment, communication equipment and household applications).Consult Harvatek's Sales in advance for the applications in which exceptional reliability is required, particularly when the failure or malfunction of the LEDs may directly jeopardize life or health. (such as in aviation, transportation, traffic control equipment, medical and life support systems and safety devices).
2. The light output from the high luminous intensity LEDs may cause injury to human eyes when viewed directly.
3. The appearance and specifications of the product may be modified for improvement without prior notice.

Looking for pricing, stock, or lifecycle information?

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- ✓ Cost Control Management
- ✓ Shortage Management
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