



PART NO.: 19-226SURSYGC/S530-A2/TR8

Device Number : DSE-926-004 REV. 1.0

Chip LEDs with Bi-Color(Multi-Color)

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Features :

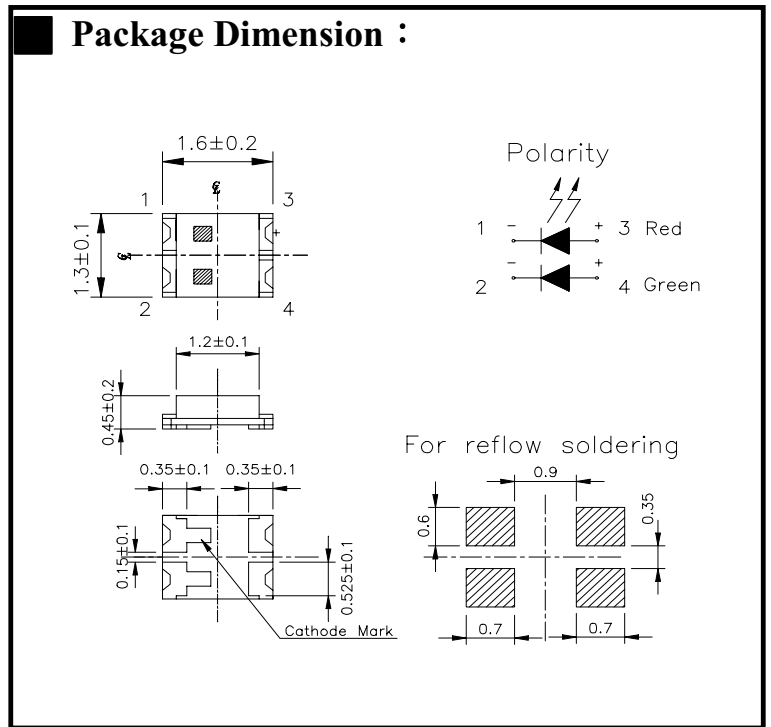
- Package in 8 mm tape on 7" diameter reel.
- Compatible with automatic equipment.
- Compatible with infrared and vapor phase reflow solder process.
- Multi-color type.

Description :

- The 19-226 SMD Taping is much smaller than leaded components, thus enable smaller board size, higher packing density, reduced storage space and Finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature application, etc.

Applications :

- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD, switch and symbol.
- General use.



Notes :

Tolerances Unless Dimension \pm
0.1mm
Angle $\pm 0.5^\circ$

PART NO.	Chip		Lens Color
	Material	Emitted Color	
19-226SURSYGC/S530-A2/TR8	AlGaInP	Hyper Red	Water Clear
	AlGaInP	Super Yellow Green	

Office: NO. 25, Lane 76, Sec. 3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL: 886-2-2267-2000, 2267-9936

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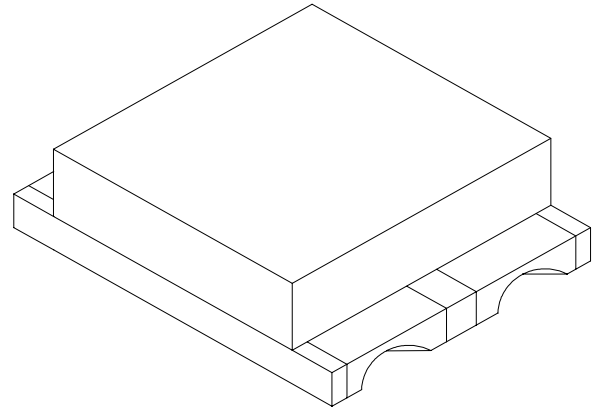
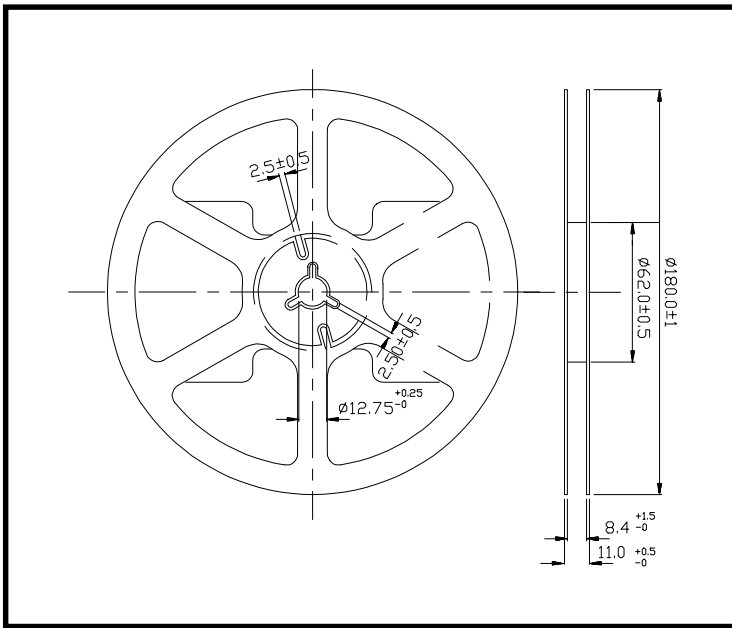
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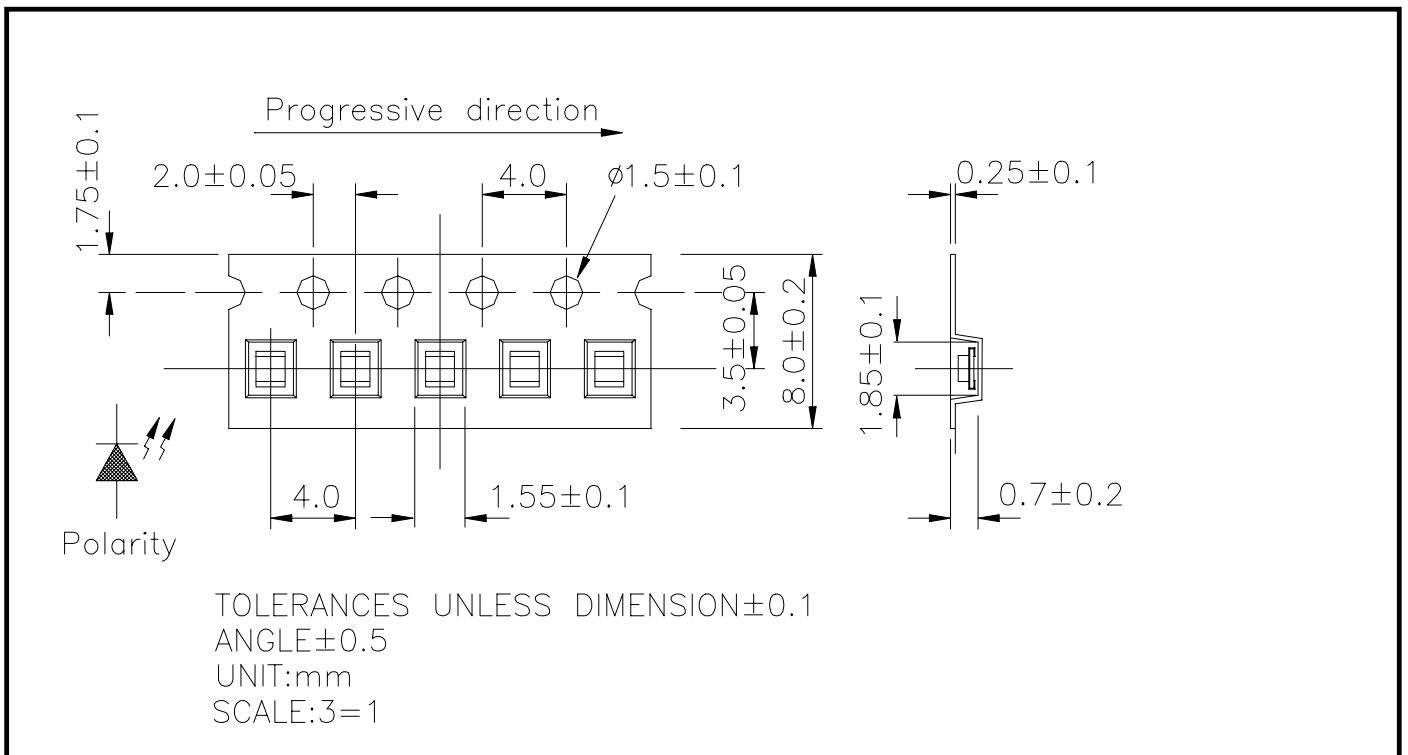
Chip LEDs with Bi-Color(Multi-Color)

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Package Dimension :



Loaded quantity per reel 2000 pcs/reel :





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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	SUR: 25 SYG: 25	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +90	°C
Soldering Temperature	T _{sol}	260 (for 5 second)	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P _d	SUR: 60 SYG: 60	mw
Peak Forward Current(Duty 1/10 @ 1KHZ)	I _{F(Peak)}	SUR: 160 SYG: 160	mA



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Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v SUR: SYG:	-----	3 1	-----	mcd	I _F =2mA
		22 9	35 13	-----	mcd	I _F =20mA
Viewing Angle	2θ 1/2	-----	120	-----	deg	I _F =20mA
Peak Wavelength	λ _p SUR: SYG:	-----	632 575	-----	nm	I _F =20mA
		-----	624 573	-----	nm	I _F =20mA
Dominant Wavelength	λ _d SUR: SYG:	-----	624 573	-----	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ SUR: SYG:	-----	20 20	-----	nm	I _F =20mA
Forward Voltage	V _F SUR: SYG:	----	2.0 2.0	2.4 2.4	V	I _F =20mA
Reverse Current	I _R	-----	-----	10	μA	V _R =5V



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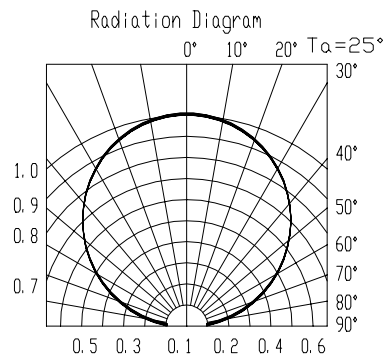
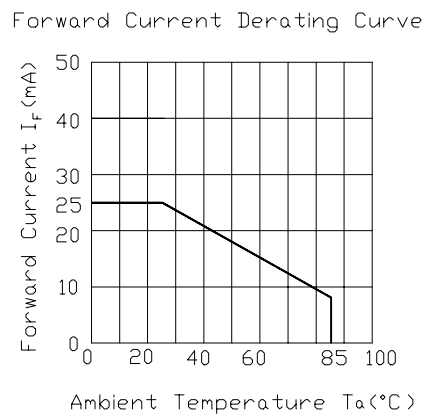
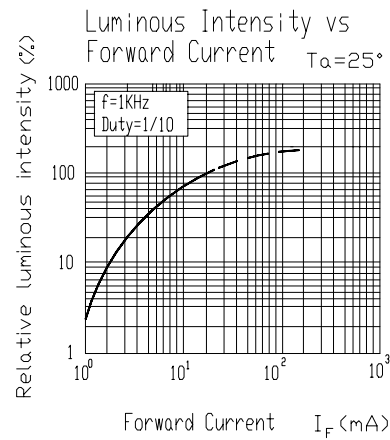
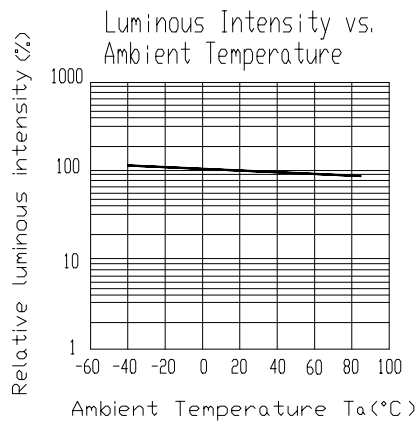
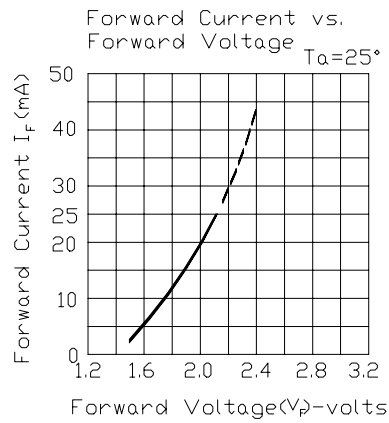
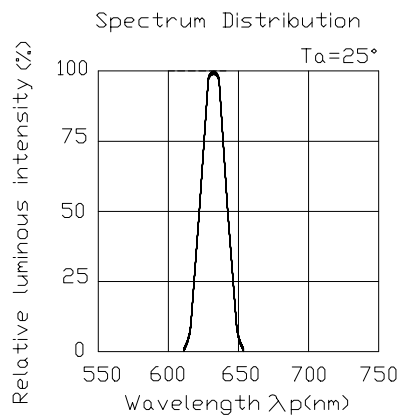
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Chip LEDs with Bi-Color(Multi-Color)

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Typical Electro-Optical Characteristic Curves

SUR





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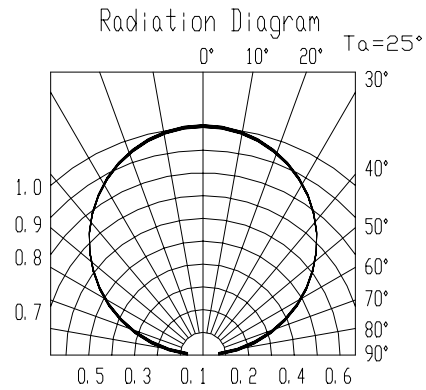
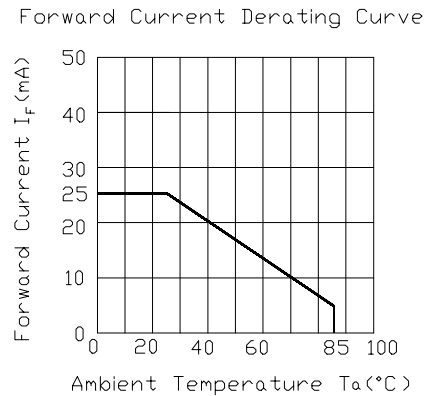
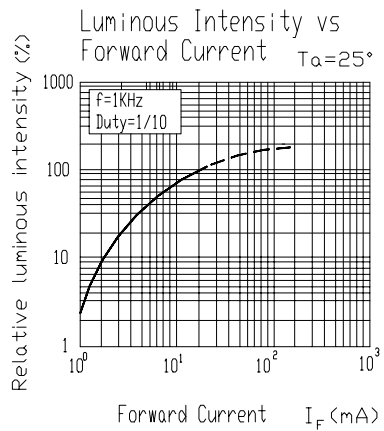
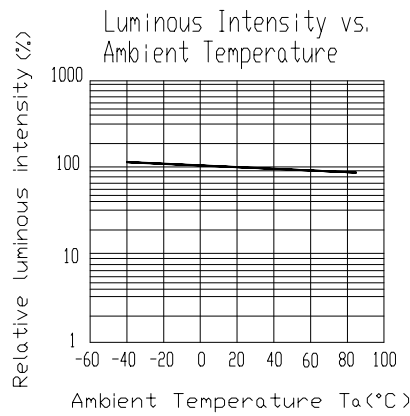
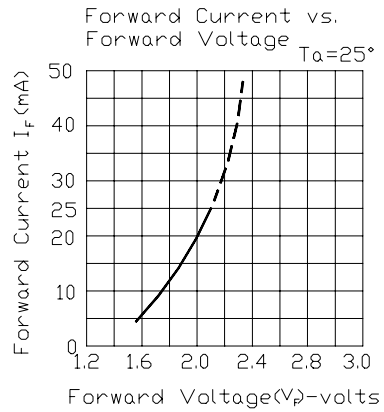
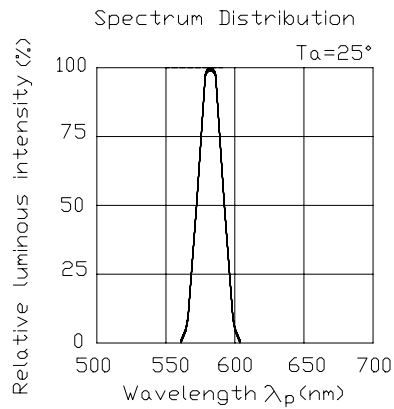
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Typical Electro-Optical Characteristic Curves

SYG





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Chip LEDs with Bi-Color(Multi-Color)

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■ Reliability Test Items And Conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min ∫ 5 min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HR,	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HR,	76 PCS	0/1
6	DC Operating Life	IF = 20 mA	1000 HR,	76 PCS	0/1
7	High Temperature / High Humidity	85°C/RH85%	1000 HR,	76 PCS	0/1



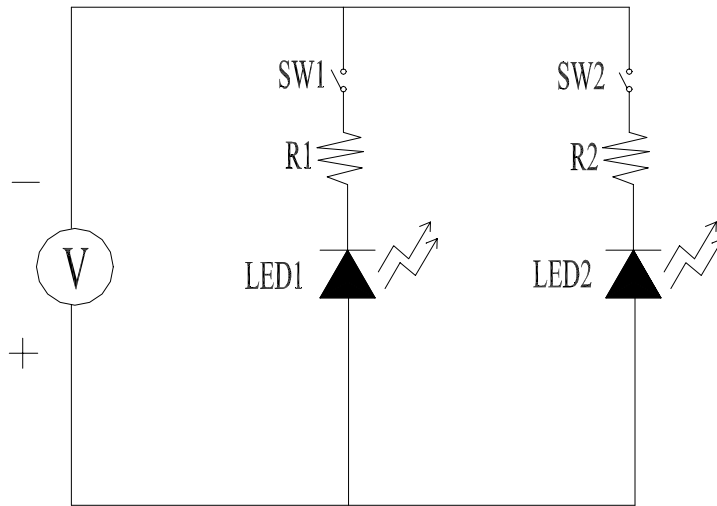
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■ **Test Circuit**



■ **Precautions For Use**

1. Over-current-proof

Customer must apply resistors for protection , otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage time

2.1 The operation of temperature and R.H. are : $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$, R.H.60%.

2.2 Once the package is opened, the products should be used within a week.

Otherwise, they should be keeping in a dampproof box with desiccants.

Considering the tape life , we suggest our customers to use our products within a year (from production date).

2.3 If opened more than one week in an atmosphere $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$, R.H.60%, they should be treated at $60^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for 15hrs.

2.4 When you discover that the desiccant in the package has a pink color (normal = blue) , you should treat them in the same conditions as 2.3.



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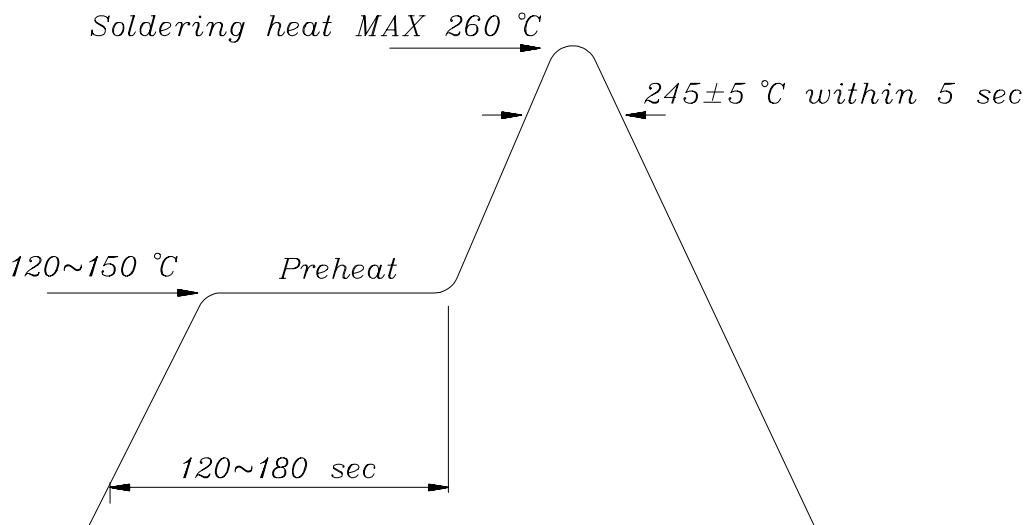
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■ **Soldering heat reliability (DIP)**

Please refer to the following figure :

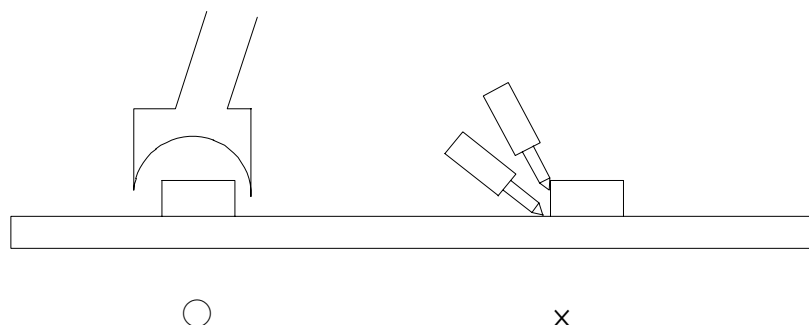


■ **Soldering Iron**

Basic spec is ≤ 5 sec when 260°C. If temperature is higher, time should be shorter (+10°C → -1sec). Power dissipation of iron should be smaller than 15 W , and temperature should be controllable. Surface temperature of the device should be under 230 °C .

■ **Rework**

1. Customer must finish rework within 5 sec under 260°C .
2. The head of iron can not touch copper foil.
3. Twin-head type is preferred.





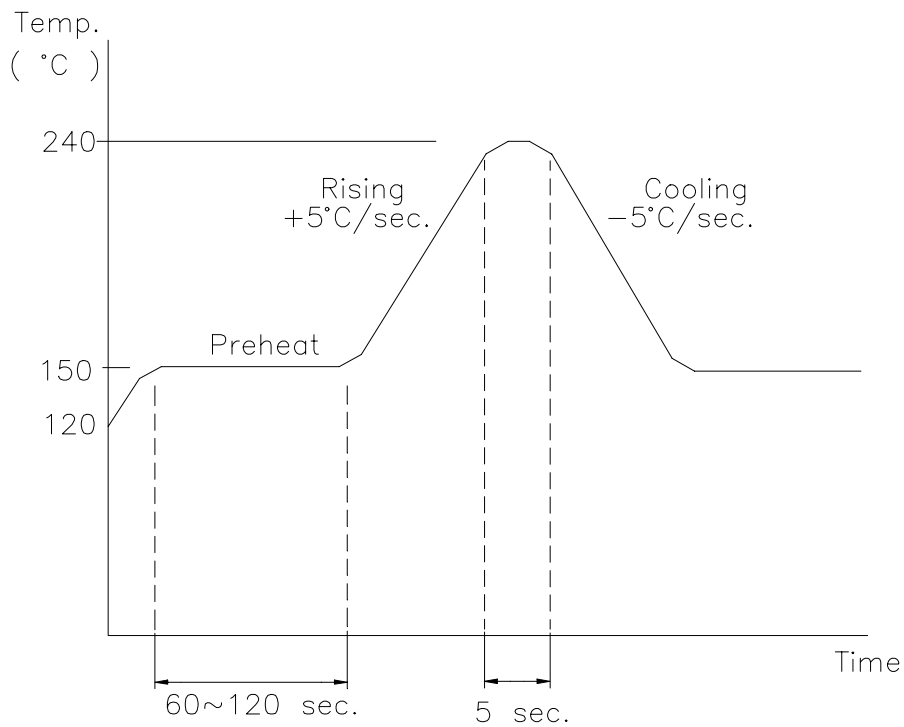
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■ Reflow Temp./Time :



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