

Part No. / : SOL-0805X006-XX

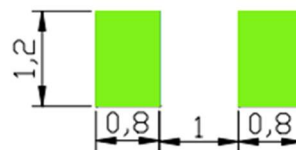
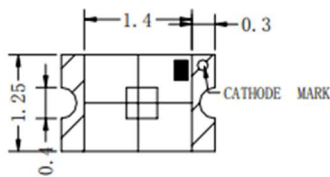
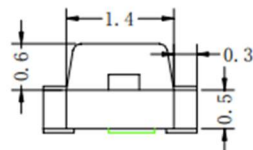
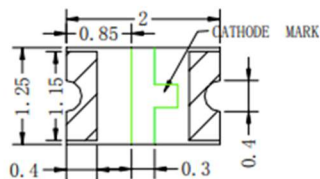
➤ **Features:**

- Emitting Color: Red、Yellow、Green、 Blue
- Super high efficiency
- High reliability performance
- Viewing angle 120°
- Suitable for all SMT assembly and solder process
- Complied with RoHS directive

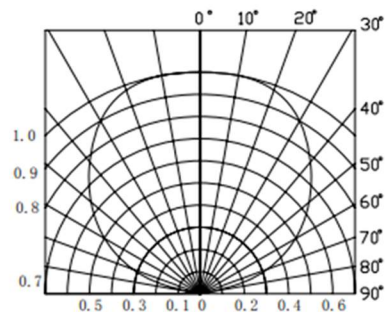
➤ **Applications:**

- Backlight of Mobile LCD Display
- Backlight of Machine Vision
- Backlight in Dashboard
- Backlight in Switch

➤ **Outline Dimensions:**



SPATIAL DISTRIBUTION



Note:



- Tolerance is 0.1mm

Part No. / : SOL-0805X006-XX

➤ **Flux Characteristics, Tj=25°C :**

Part Number	CCT (K)or Wavelength(nm)		LuminousFlux@20mA (Lm)(MCD)		Viewing Angle (degrees) 2 θ _{1/2}
	Min.	Max.	Min.	Max.	
SOL-0805R006-02	620nm	630nm	100MCD	200MCD	120
SOL-0805Y006-02	585nm	595nm	100MCD	200MCD	120
SOL-0805G006-03	515nm	530nm	200MCD	400MCD	120
SOL-0805B006-03	455nm	475nm	50MCD	150MCD	120

Note:

- SOL maintains a tolerance of ±1nm for dominant wavelength measurements.
- SOL maintains a tolerance of ±5% for CCT measurements.
- SOL maintains a tolerance of ± 5% on flux and power measurements.

Part No. /: SOL-0805X006-XX

➤ **Electrical Characteristics, Tj=25°C:**

Part Number	Forward Voltage V _F (V) @20mA		
	Min.	Typ.	Max.
SOL-0805R006-02	1.8	2.0	2.4
SOL-0805Y006-02	1.8	2.0	2.4
SOL-0805G006-03	2.8	3.0	3.5
SOL-0805B006-03	2.8	3.0	3.5

Note:

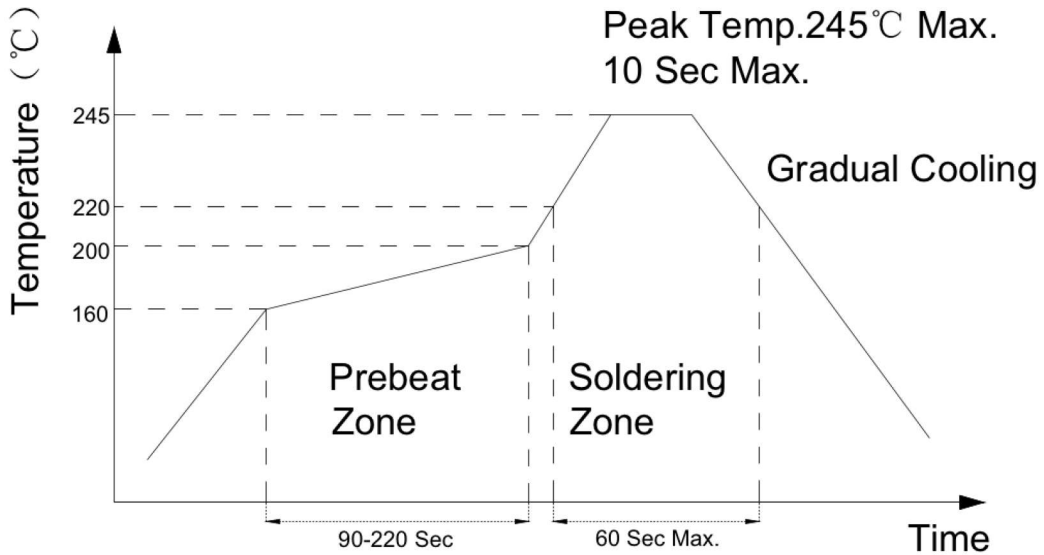
- SOL maintains a tolerance of ±0.1v for Voltage measurements.

➤ **Absolute Maximum Ratings:**

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
Power Dissipation	Pd			60	mW
Reverse Voltage	VR	IR = 30μA	5		V
Pulse Current	IFp	Duty=0.1,1kHz		30	mA
Forward Current	IFm			20	mA
Operating Temperature	Topr		-40	+85	°C
Storage Temperature	Tstr		-40	+100	°C

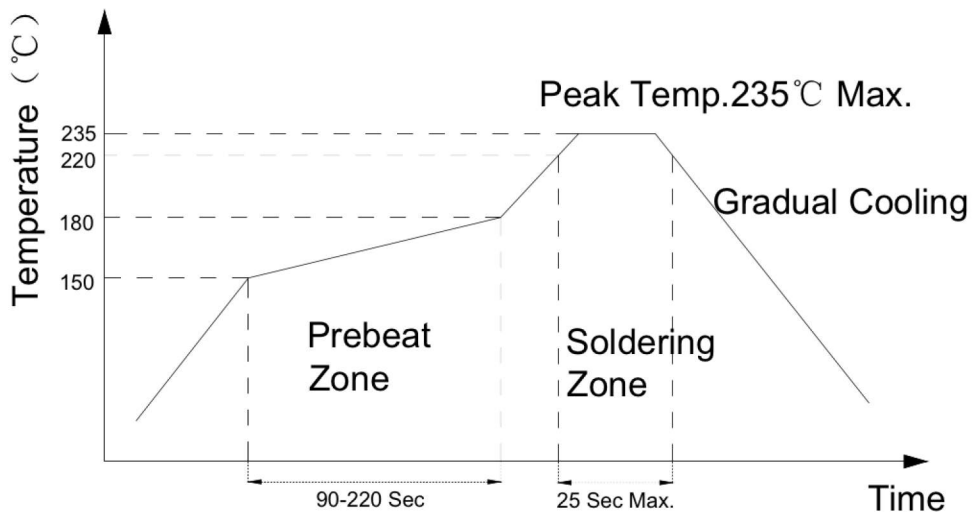
Part No. /: SOL-0805X006-XX

➤ **IR reflow soldering Profile :**



Lead Free solder

Lead solder



NOTES:

- We recommend the reflow temperature 240°C±5°C.
- Don't cause stress to the silicone resin while it is exposed to high temperature.
- Number of reflow process shall be 1 time.

Part No. /: SOL-0805X006-XX

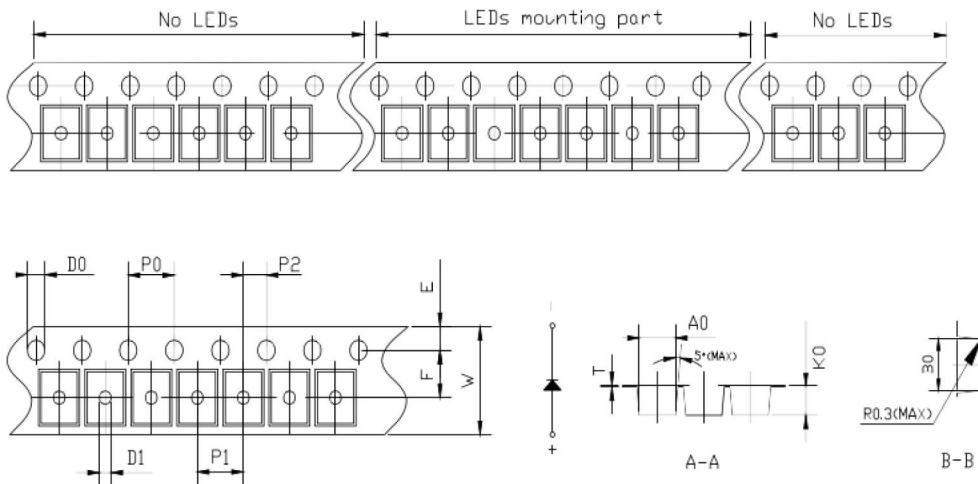
➤ **Test items and results of reliability :**

Test Item	Test Conditions	Duration/ Cycle	Number of damage	Reference
Temperature	-40° C 30min ↑↓25° C(2min) 100° C 30min	100 times	0/100	JEITA ED-4701300 303
Thermal Shock	40° C 30min ↑↓ 5sec 100° C 30min	100 times	0/100	JEITA ED-4701200 303
High Temperature Storage	Ta=100° C	1000 hours	0/100	EIAJED-4701200 201
Humidity Heat Storage	Ta=85° C RH=85%	1000 hours	0/100	EIAJED-4701100 103
Low Temperature Storage	Ta=-40° C	1000 hours	0/100	EIAJED-4701200 202
Room Temperature Test	Ta=25° C IF=20mA	1000 hours	0/100	Tested with SOL standard
High Humidity Heat Test	60° C RH=90% IF=20mA	1000 hours	0/100	Tested with SOL standard
Low Temperature Test	Ta=-40° C IF=20mA	1000 hours	0/100	Tested with SOL standard
ESD(HBM)	-4KV at 1.5KΩ; 100pF	3 times	0/100	MIL-STD-883D

Part No. / : SOL-0805X006-XX

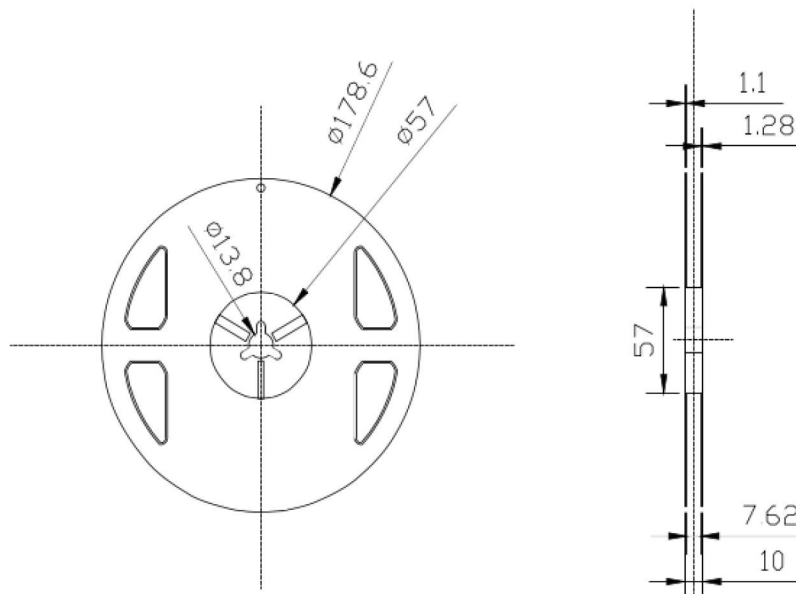
➤ **Packaging:**

1. Dimension of Tape (Unit: mm)



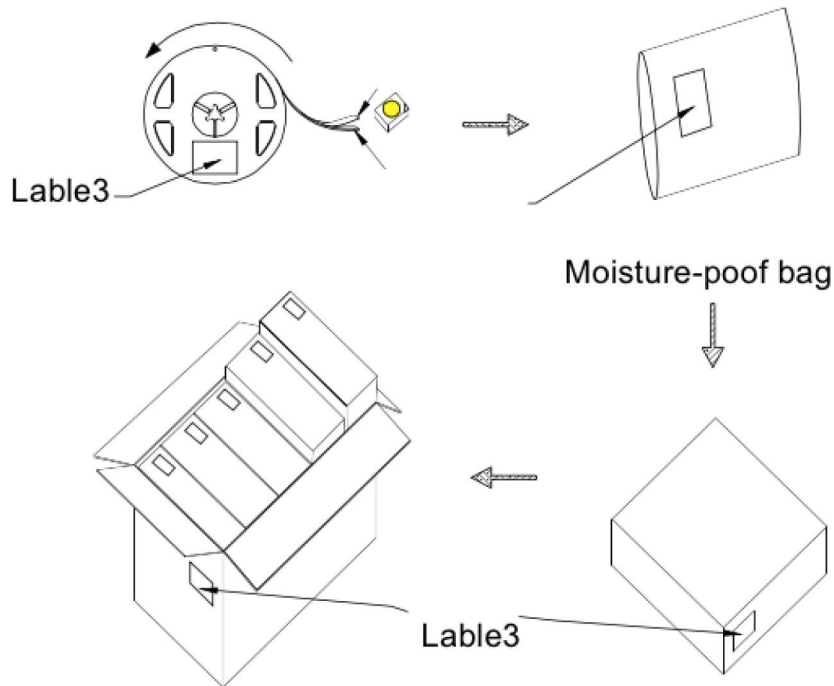
symbol	A0	B0	K0	P0	P1	P2	model	unit
spec	3.15±0.10	3.80±0.10	2.10±0.10	4.00±0.10	4.00±0.10	2.00±0.10		
symbol	W	T	E	F	D0	D1	2835	mm
spec	8.00±0.10	0.235±0.05	1.75±0.10	3.50±0.10	1.50 ^{+0.10} _{-0.00}	1.00 ^{+0.10} _{-0.00}		

2. Dimension of Reel (Unit: mm)



Part No. / : SOL-0805X006-XX

3. Dimension of Package (Unit: mm)



Outside box
Maximums for inside
boses

Inside box Maximums seven