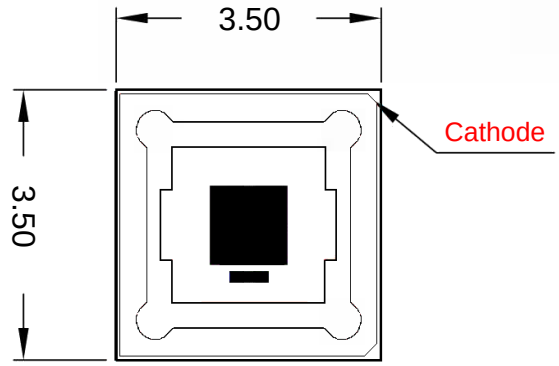
TH-UVxx5T1WFYT50-3535F

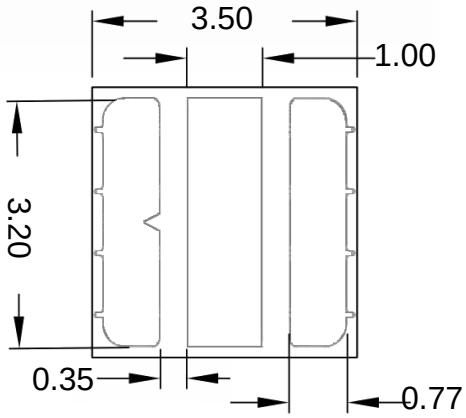
CAUTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

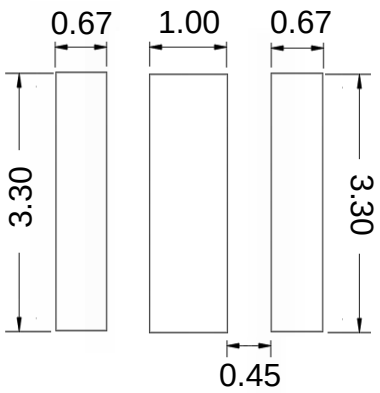
Mechanical Dimensions



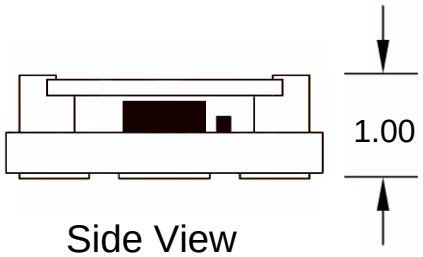
Front Side



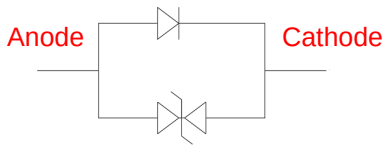
Back Side



Solder Pad of PCB



Side View



Zener Diode

Notes :

[1] All dimensions are in millimeters.
[2] Scale : none
[3] Undefined tolerance is ±0.2mm

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Electro-Optical characteristics at350mA

(T_a=25℃, RH=30%)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Current	I_F			350		mA
Forward Voltage[4]	V_F	I_F=350mA	4.8	-	7.0	V
Radiant Flux[2]	Φ_e[3]	I_F=350mA	45	-	80	mW
Peak Wavelength[1] TH-UV255T1WFYT50-3535F:255nm TH-UV265T1WFYT50-3535F:265nm TH-UV275T1WFYT50-3535F:275nm TH-UV285T1WFYT50-3535F:285nm TH-UV295T1WFYT50-3535F:295nm TH-UV305T1WFYT50-3535F:305nm TH-UV315T1WFYT50-3535F:315nm	λp	I_F=350mA	250	255	260	nm
			260	265	270	
			270	275	280	
			280	285	290	
			290	295	300	
			300	305	310	
			310	315	320	
Viewing Angle	2 θ½	I_F=350mA		120		deg.
Spectrum Half Width	Δ λ	I_F=350mA		10		nm
Thermal Resistance	$R_{\theta J-b}$	I_F=350mA		25.2		ºC /W

Absolute Maximum Ratings

Parameter	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	500	mA
Power Dissipation	P_D	3000	mW
Operating Temperature	Topr	-30 ~ +60	°C
Storage Temperature	Tstg	-40 ~ +100	°C

Notes：

1. Peak Wavelength Measurement tolerance：±3nm
2. Radiant Flux Measurement tolerance：± 10%
3. Φ_e is the Total Radiant Flux as measured with an integrated sphere.
4. Forward Voltage Measurement tolerance：±3%

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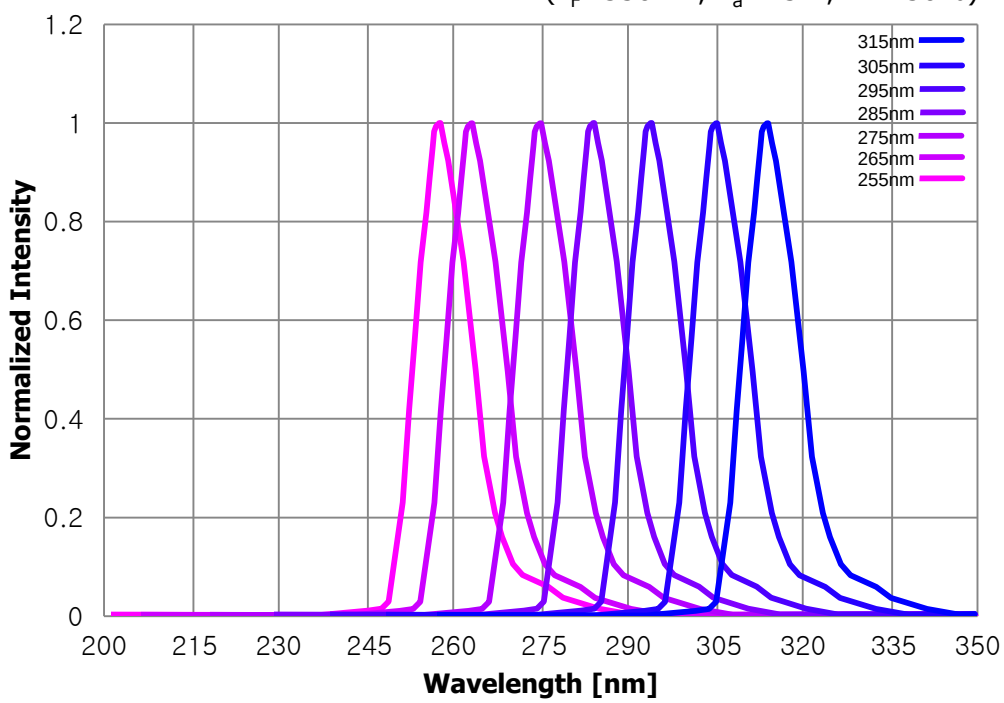
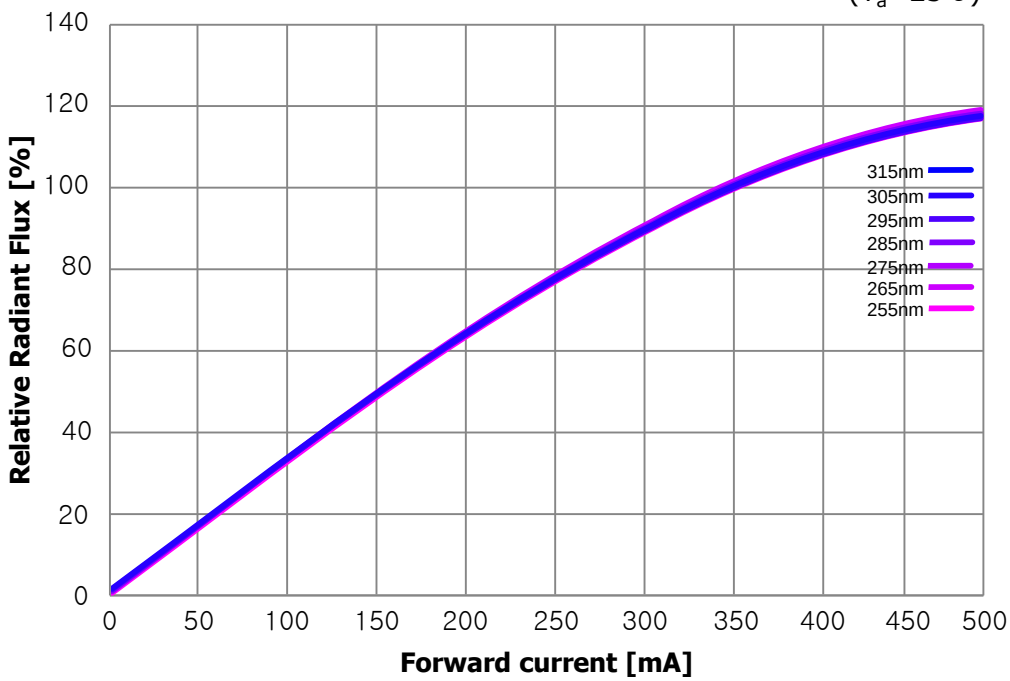
Spectral Power Distribution

(I_F=350mA, T_a=25℃, RH=30%)



Relative Radiant Flux vs. Forward Current

(T_a=25℃)



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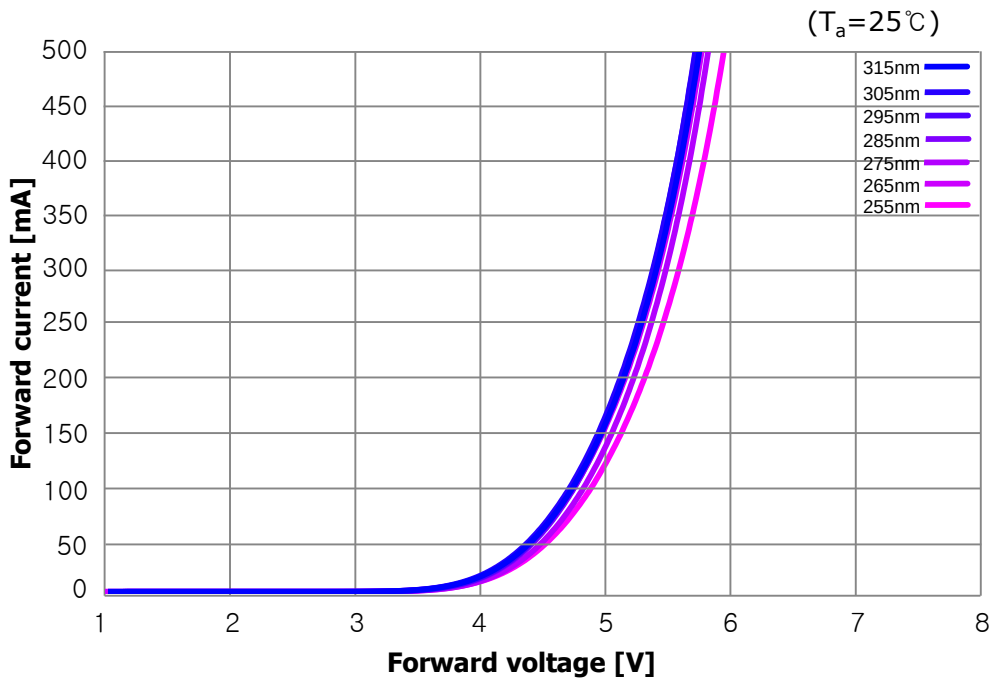
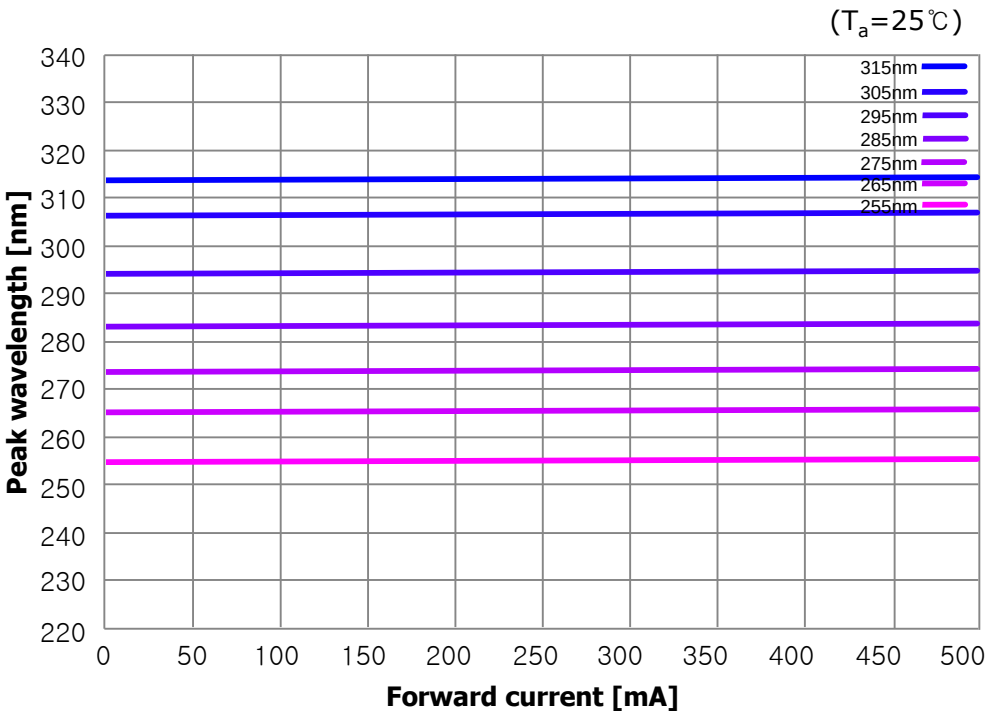
Forward current vs. Forward Voltage



Peak Wavelength vs. Forward current



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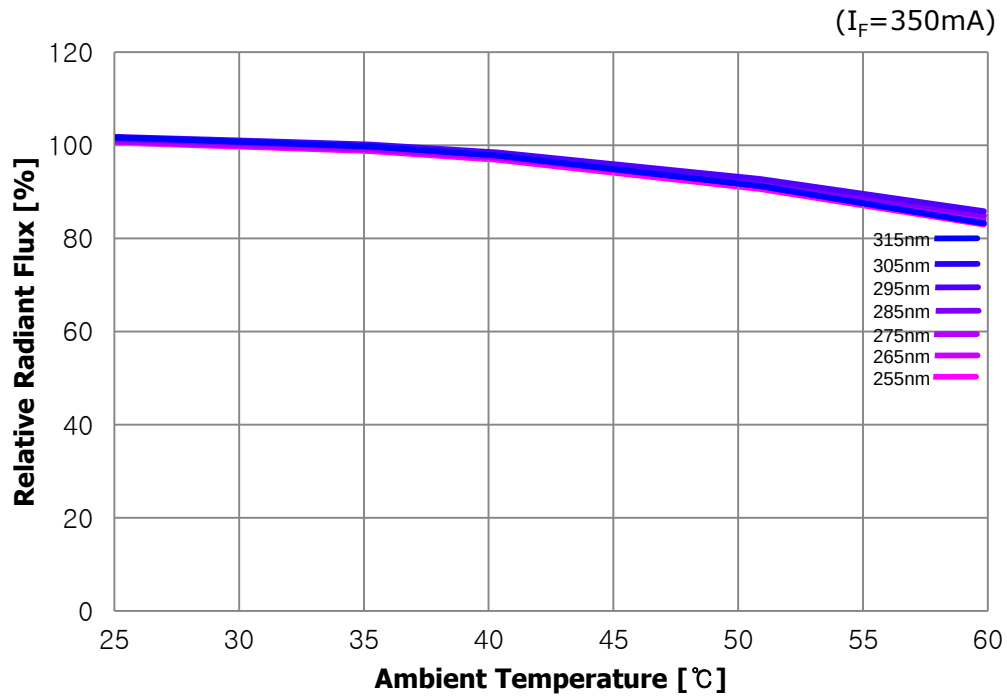
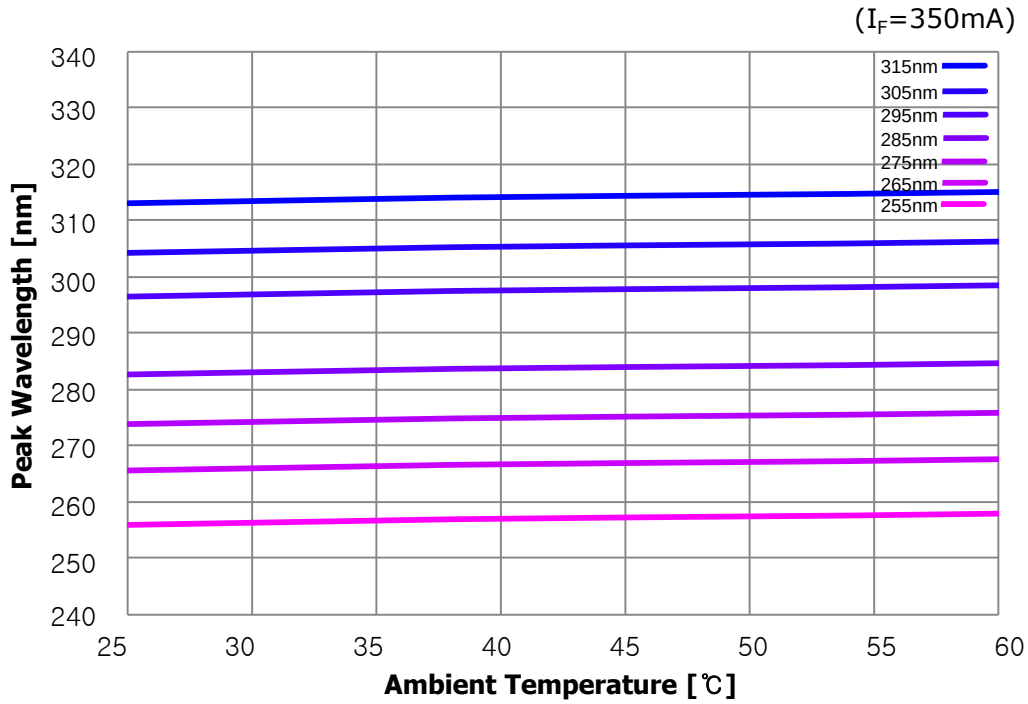
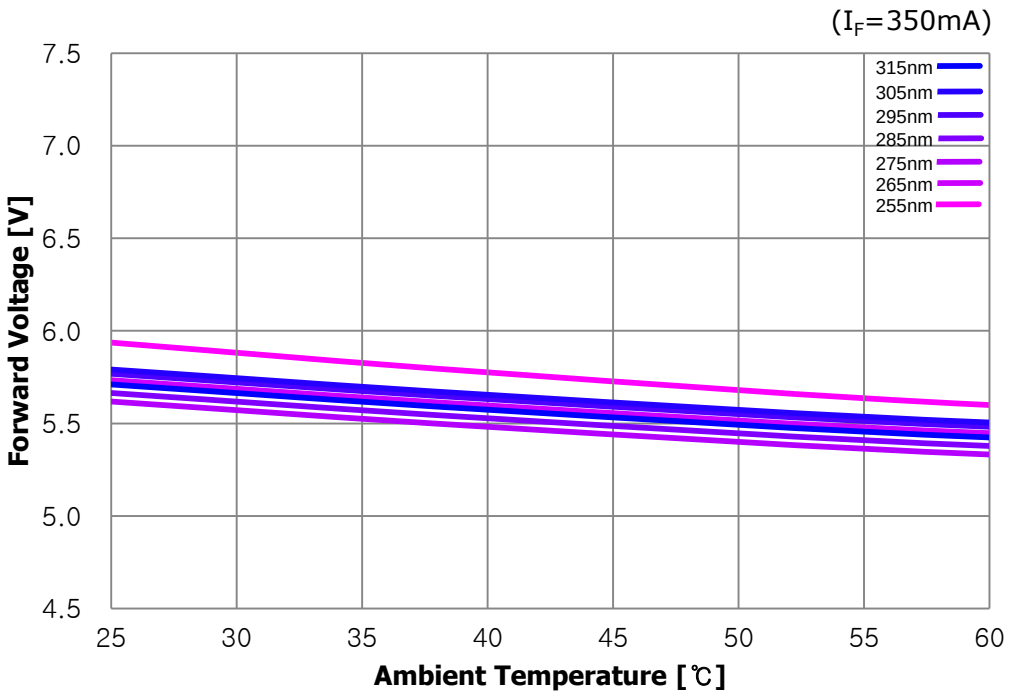
Relative Radiant Flux vs. Ambient Temperature



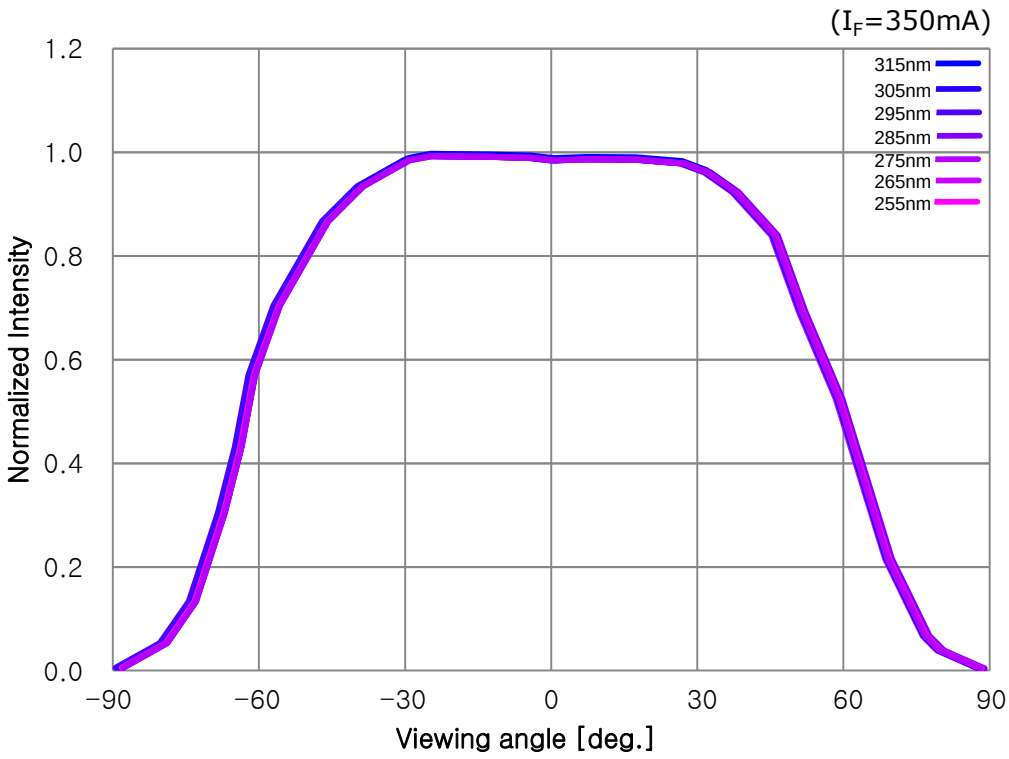
Peak Wavelength vs. Ambient Temperature



Forward Voltage vs. Ambient Temperature



Radiant Pattern



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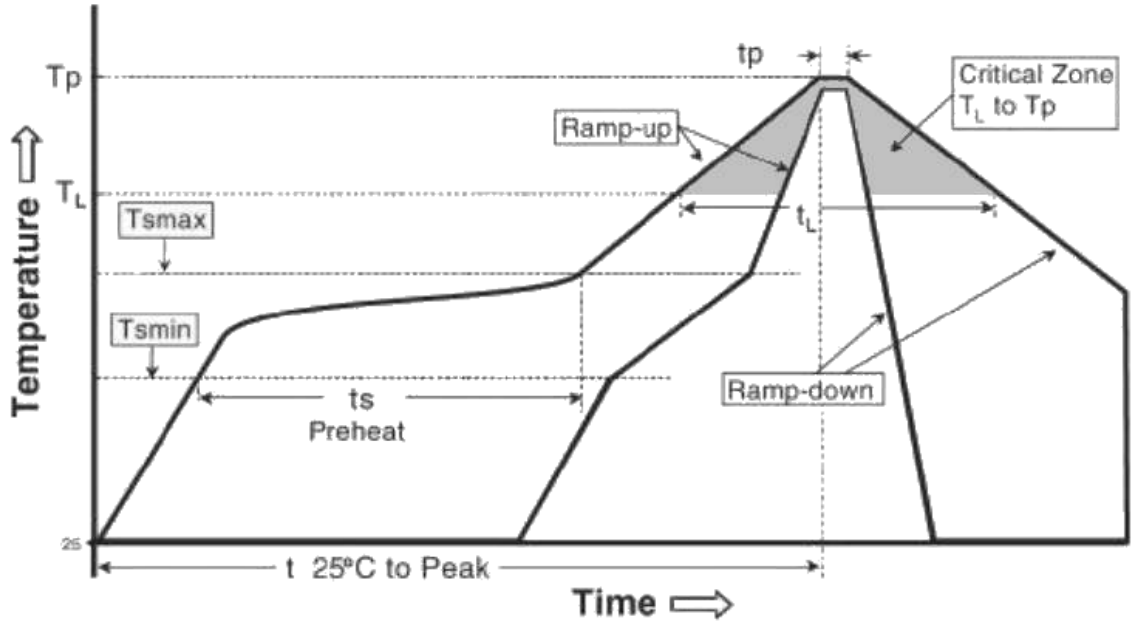

Profile Feature	Sn-Pb Eutectic Assembly
Average ramp-up rate (Ts_max to Tp)	3 ˚C/second max.
Preheat **- Temperature Min (Ts_min)** **- Temperature Max (Ts_max)** **- Time (Ts_min to Ts_max) (ts)**	 100 ˚C 140 ˚C 60-120 seconds
Time maintained above: **- Temperature (TL)** **- Time (tL)**	 180 ˚C 20-50 seconds
Peak Temperature (Tp)	214℃
Time within 5˚C of actual Peak Temperature (tp)	10-30 seconds
Ramp-down Rate	6 ˚C/second max.
Time 25˚C to Peak Temperature	6 minutes max.

*** Caution**

1. **Reflow soldering should not be done more than one time.**
2. **Repairs should not be done after the LEDs have been soldered. When repair is unavoidable, suitable tools must be used.**
3. **Die slug is to be soldered.**
4. **When soldering, do not put stress on the LEDs during heating.**
5. **After soldering, do not warp the circuit board.**
6. **Recommend to use a convection type reflow machine with 6 ~ 8 zones.**