

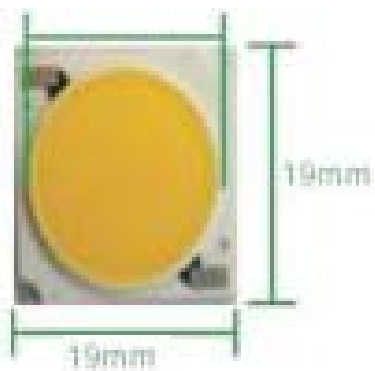


YETDA INDUSTRY LTD.

10W HIGH POWER LED (COB TYPE) W10S19*19

Features	Applications
* Long operating life	* Reading lights (car, bus, aircraft)
* Highest flux	* LCD Backlights/light Guides
* Available in White:2500K-25000K	* Fiber optic alternative/ Decorative Entertainment
* Lambertian radiation pattern	* Mini-accent/Up lighters/Down lighters/ Orientation
* More energy efficient than incandescent and most halogen lamps	* Indoor/Outdoor commercial and Residential Architectural
* Low voltage DC operated	* Cove/Under shelf/Task
* Cool beam, safe to the touch	* Bollards/Security/Garden
* Instant light (less than 100ns)	* Portable (flashlight, bicycle)
* Fully dimmable	* Edge-lit signs (Exit, point of sale)
* No UV	* Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
* Superior ESD protection	* Traffic signaling / Beacons / RailCrossing and Wayside
* Eutectic die bonding	
* RoHS compliant	

PACKAGE





YETDA INDUSTRY LTD.

Typical Optical/ Electrical Characteristics @T_J=25 °C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =0.3A	30		34	V
Reverse Current	I _R	V _R =5v			50	uA
Forward current	I _F	I _F =30V	0.3		0.35	A
50% Power Angle	2θ _{1/2}	I _F =0.3A		140		deg
Luminous Intensity	φ _V	I _F =0.3A	900		1000	lm
Color Index	R _a	-- I _F =0.3A	80		83	mA
Chromaticity CCT	T _c	I _F =0.3A	6000		6500	k
Thermal Resistance, Junction to Case	R _{JP}	I _F =0.3A		10		°C/w

Notes:

1. Tolerance of measurement of forward voltage±0.1V.
2. Tolerance of measurement of peak Wavelength±2.0nm.
3. Tolerance of measurement of luminous intensity±15%.

Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	0.30	A
Reverse Voltage	V _R	5	V
Electrostatic discharge	E _{SD}	±4500	V
Operation Temperature	T _{OPR}	-30~+60	°C
Storage Temperature	T _{STG}	-40~+90	°C
Lead Soldering Temperature*	T _{SOL}	Max. 260	°C for 3sec M

*IFP Conditions : Pulse Width≤10msec duty≤1/10

* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

* Re-flow, wave peak and soak- stannum soldering etc.is not suitable for this products.

* Suggest to solder it by professional high power LED soldering machine.

* Can use invariable-temperature searing-iron with soldering condition:≤260 degree less than 3 seconds.



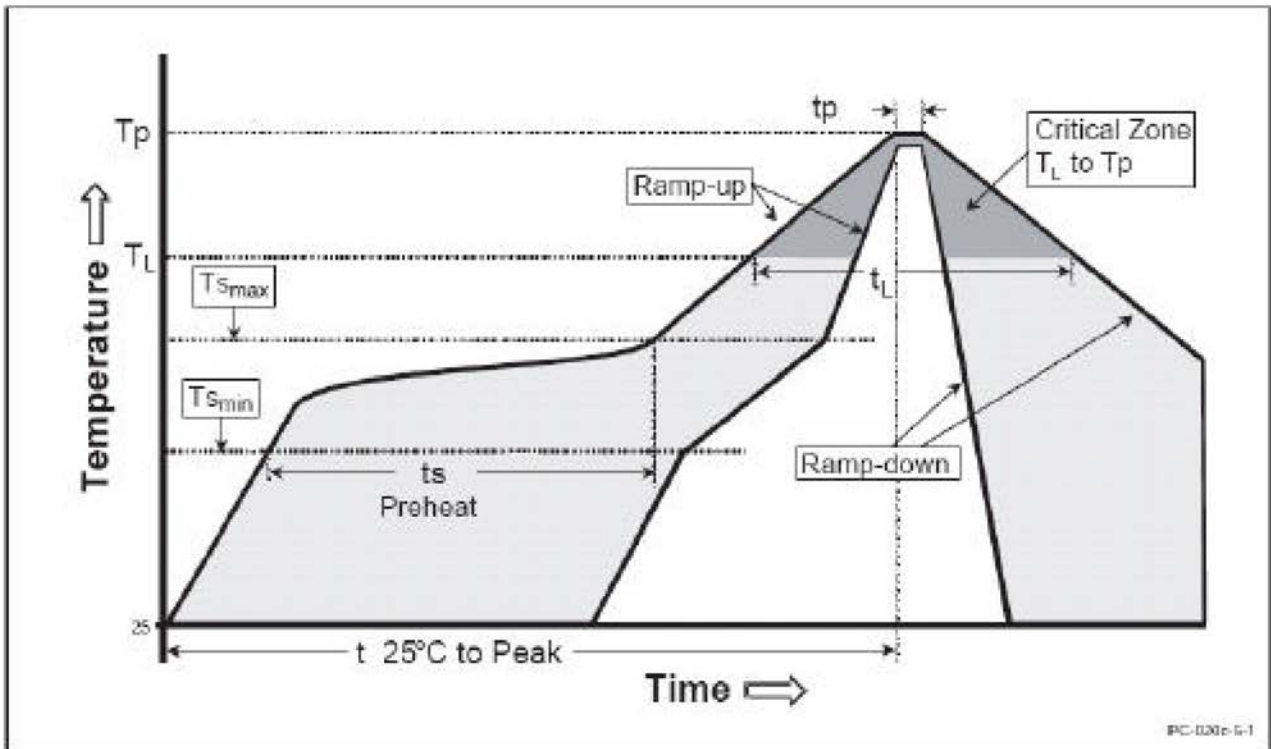
YETDA INDUSTRY LTD.

Typical Optical/Electrical Characteristics Curves

(T_J=25

°C Unless Otherwise Noted)

Reflow Soldering Characteristics



Profile Feature	Pb-Free Assembly
Preheat	
– Temperature Min (T _{smin})	60-180 seconds
– Temperature Max (T _{smax})	150 °C
– Time (t _{smin} to t _{smax})	200 °C
– Temperature (T _L)	
– Time (t _L)	60-150 seconds
Time maintained above:	217 °C
Peak/Classification Temperature (T _p)	260 °C
Time within 5 °C of actual Peak Temperature (t _p)	20-40 seconds
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Notes

1. All temperatures refer to Solder Pad