

I Series Module:UTX365B

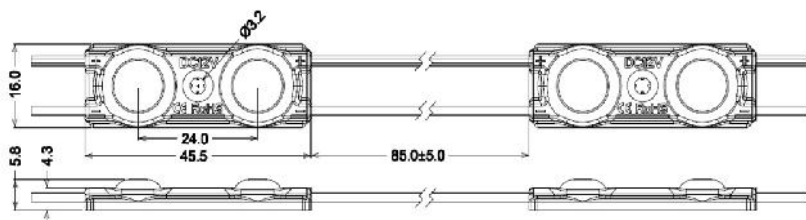
Make your ideal sign !

Feature: Picture:

- ◆ 90% transmittance lens, Wide view angle 160°
- ◆ Constant Current Technology (CCT), 40 pcs per series
- ◆ The exposed Aluminum plate for heat dissipation
- ◆ Injection molding process, Waterproof:IP 67
- ◆ Bigger chip, 10% brighter than before
- ◆ Energy saving, Environment friendly
- ◆ Long life span
- ◆ Suitable for 6-12 cm height channel letters and light boxes backlighting etc.



Dimensions:



Typical optical characteristics curves



Code	Color	Operation Voltage	Rated Current	Rated Power	Beam Angle	Luminous Flux	Wave length	Working Temp.	IP Rank
UTW365B	Pure White	DC12V	80mA	0.96W	160°	90	6000-7000K	-40°C-60°C	IP 67
UTC365B	Pure White	DC12V	80mA	0.96W	160°	90	9000-1200K	-40°C-60°C	IP 67



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Absolute maximum ratings

Parameter	Symbol	Value	Unit
Power dissipation	Pd	320	mW
Forward current	If	90	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-40 ~ +100	°C
Storage temperature range	Tstg	-40 ~ +100	°C
Pulse forward current	Ifp	150	mA
Electrostatic discharge	ESD	2000 (HBM)	V
Junction temperature	Tj	85	°C

Reliability

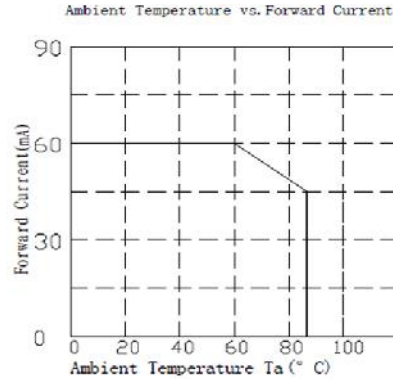
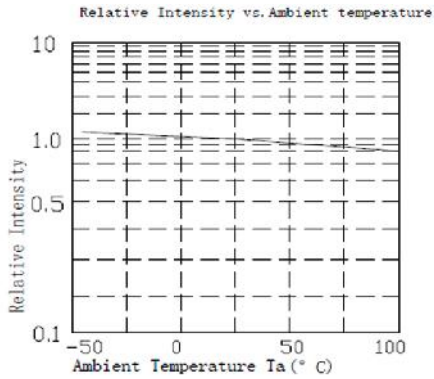
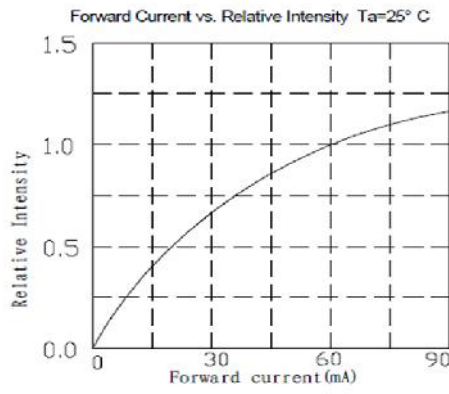
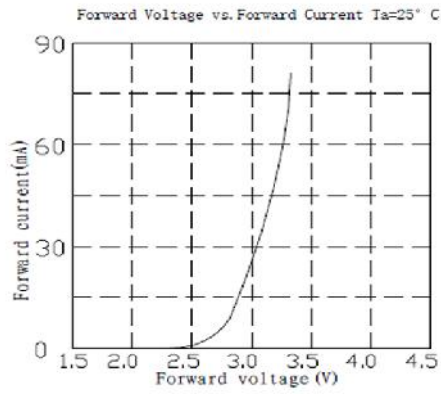
	Test item	Ref. standard	Test condition	Note	Damaged
environment sequence	Resistance to soldering heat (Reflow Soldering)	JESD22-B106	Tsld=260°C, 10sec	2 times	0/22
	Temperature cycle	JESD22-A104	-40 30min ↑ ↓ 5min 100°C 30min	1000 cycle	0/100
	Thermal shock	JESD22-A106	-40 15min ↑ ↓ 100°C 15min	1000 cycle	0/100
	High temperature	JESD22-A103	Ta=100°C	1000 cycle	0/100
	Low temperature	JESD22-A119	Ta=40°C	1000 cycle	0/100
	Power temperature	JESD22-A105	On 5min -40 >15min ↑ ↓ <15min Off 5min 100 >15min	1000 cycle	0/100
	Life test	JESD22-A108	Ta=25°C If=120mA	1000 cycle	0/100
	High humidity heat life test	JESD22-A101	60°C RH=90% If=60mA	1000 cycle	0/100



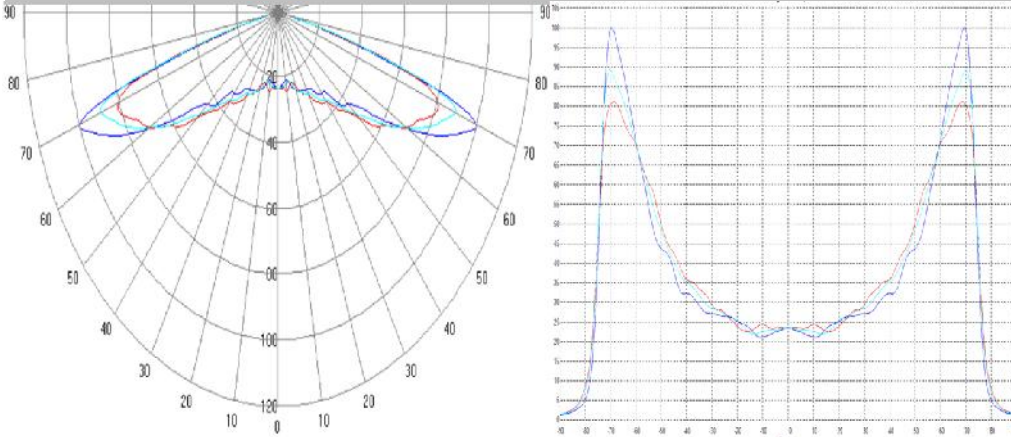
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Typical optical characteristics curves



Distribution curve

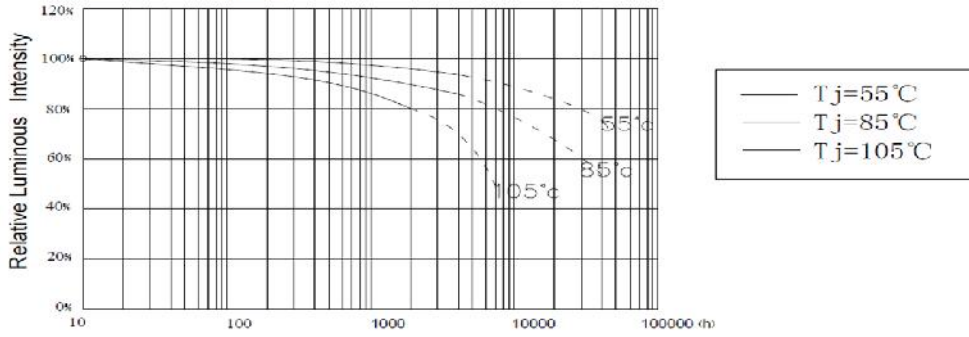


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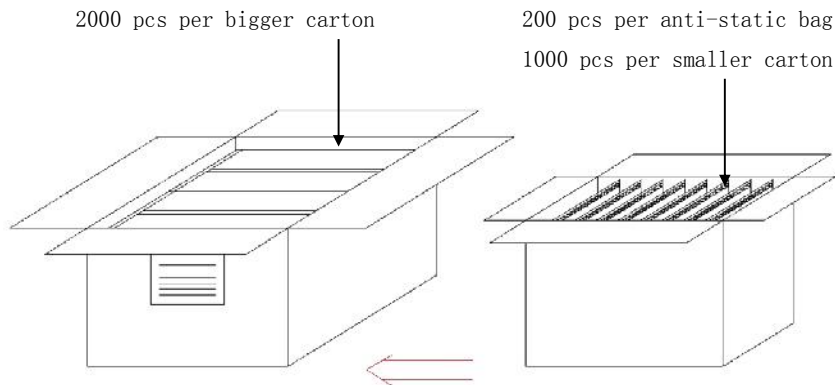
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Affect of Tj on Luminous Maintenance

Affect of Tj on Luminous Maintenance
(If=60mA)
(Dot line: Expected Life)



Packaging



Cautions:

- 1.Outal carton:52x37x26cm ; Small carton:35x25x23cm ; Anti-static bag:305x280x0.12mm .
- 2.40pcs per chain,5pcs chain in one Anti-static bag . (200 pcs in one Anti-static bag)
- 3.5 bags in one small carton . (1000 pcs in one small carton)
- 4.One outal carton contains two small cartons . (2000 pcs in one outal carton)

