LED high power Tester for sigle-chip package

Measure electrical and optical characteristic

Model：ZCLED-16A08\N

Test item	Reading				Output item	Test condition				Remark
	Unit	Range	Accuracy	Reproducibility		Unit	Range	Accuracy	Output time	
VF	V	0.1~80.00	±0.25%+0.02	±0.1	IF	mA	0.001~4.000	±1%+0.002	2~99mS	1.2.8
							4.01~40.00	±1%+0.02	0.3~99mS	
							40.1~400.0	±1%+0.2	0.3~99mS	
							401~6000	±1%+2	0.3~99mS	
DVF	V	0.1~80.00	±0.25%+0.02	±0.1	DIF	mA	0.001~4.000	±1%+0.002	2~99mS	1.2.8
							4.01~40.00	±1%+0.02	0.3~99mS	
							40.1~400.0	±1%+0.2	0.3~99mS	
							401~6000	±1%+2	0.3~99mS	
POLA	Find polarity, no test reading				POLA IF	mA	4.01~400.0	±1%+0.2	1mS	
HEAT	Source only, no test reading				HEAT IF	mA	0.001~4.000	±1%+0.002	2~99mS	1.2.8
							4.01~40.00	±1%+0.02	0.3~99mS	
							40.1~400.0	±1%+0.2	0.3~99mS	
							401~6000	±1%+2	0.3~99mS	
VFD	V	0.1~80.00	Proximity	±0.1	IFD	uA	100uA	Proximity		1.2.8
						mA	25mA			
VZ	V	0.1~800.0	±0.5%+0.2	±0.4	IZ	uA	10.00~40.00	±1%+0.02	2~99mS	1.2.8
							40.1~400.0	±1%+0.2	2~99mS	
							401~1000	±1%+2	2~99mS	
LOP (lv or le)		0.01~4.000	±2%	±1%	LOP IF	mA	0.001~4.000	±1%+0.002	2~99mS	1.3.8
		4.01~40.00	±2%	±1%			4.01~40.00	±1%+0.02	0.3~99mS	
		40.1~400.0	±2%	±1%			40.1~400.0	±1%+0.2	0.3~99mS	
		Use calibration to correspond with lv or le					401~6000	±1%+2	0.3~99mS	
λd	nm	380.0~700.0	±0.5nm	±0.3nm	spec IF	mA	0.001~4.000	±1%+0.002	2~99mS	4.6.5.7.8
λc	nm	380.0~720.0	±0.5nm	±0.3nm			4.01~40.00	±1%+0.02	0.2~99mS	
λp	nm	380.0~1000.0	±0.5nm	±0.3nm			40.1~400.0	±1%+0.2	0.2~99mS	
HW	nm	3.0~600.0nm	±0.5nm	±0.3nm			401~6000	±1%+2	0.2~99mS	
Purity		0.000~1.000	±0.002	±0.001			1.CD is 2048 pixel. 2.The least ST is 0.2 mS.			
CIE x.y		0.0002~1.0000	±0.001	±0.0005						
CCT	°K	1000~25000	±100	±50						

1.In order to get normal test result for LED, please make sure it is not affected by heating and environment.

2.When S/N is worse, it needs to use [50/60HZ]. The time of 50Hz needs higher than 20mS. The time of 60Hz needs higher than 16.6mS.

3.Calibrated with a Standard LED with spectrum mismatch adjustment

4.λd, Purity and CCT are calculated from (x, y) refer to (x,y) for accuracy

5.A LED with flat spectrum width has worse λp accuracy.

6.Using stanadrd UV lighting source to calibrate UV range of spectrum.

7.λd is only referable for visible light.

8.When current is lower, it needs to increase test time.

Dimension