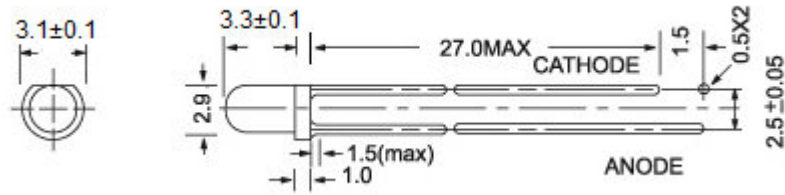


LED LAMP SPECIFICATION

MAR.15,2017.



All Dimensions are in Millimeters
Tolerance is 0.15mm

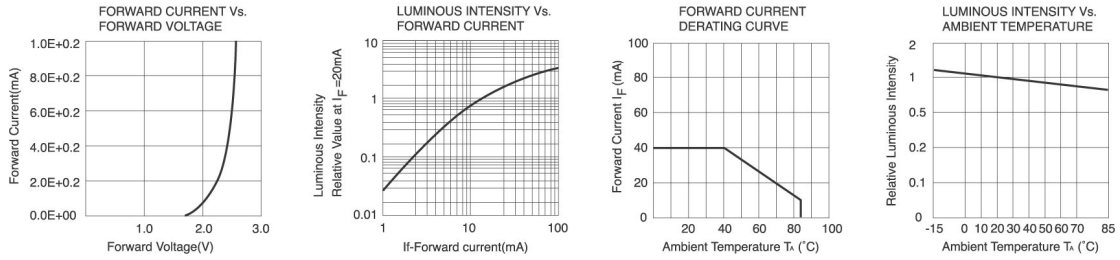
LIGHT SOURCE	Part Number					Optoelectric Characteristics				Angle 2 θ 1/2 (deg)	Peak Wavelength (nm) TYP
		IF (ma)	VR (V)	PD (mw)	Peak If (ma)	Forward Voltage VF(V) @ 20ma		Iv(mcd) @ 20ma			
						Typ	MAX	Typ	MAX		
Super Blue V (InGaN)	P-L600-B	20	5	100	50	3.0	4.0	10000		18	465
Super Green V (InGaN)	P-L600-G	20	5	100	50	3.0	4.0	8000		16	525
Super RED V (AlGaInp)	P-L600-R	20	5	100	50	2.1	3.0	15000		28	625
Super White V (InGaN)	P-L600-W	20	5	100	50	3.1	4.0	17000		30	X=0.26 Y=0.24
Super Yellow V (AlGaInp)	P-L600-Y	20	5	100	50	2.1	3.0	18000		28	590

TECHNICAL DATA

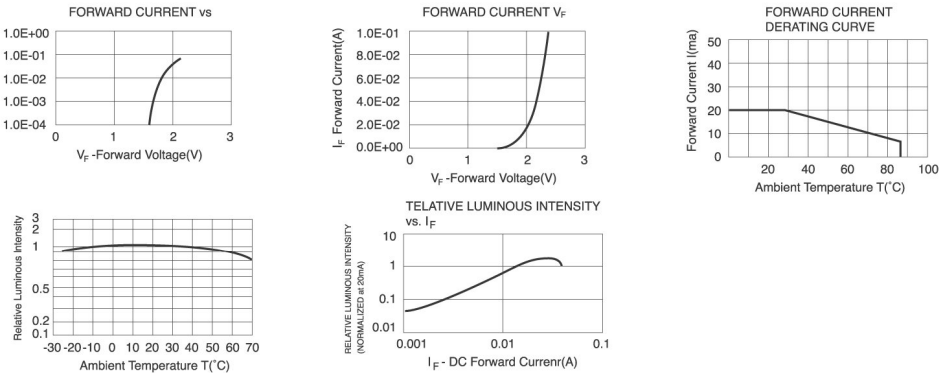
ABSOLUTE MAXIMUM RATINGS (TA=25°C)	SYMBOL	RATING	UNIT
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40~+85	°C
Reverse Current (VR=5V)	IR	10	μ a
Lead Soldering Temperature (3m/m From Body) 260° C (For 3 Seconds)			

Characteristic Curves

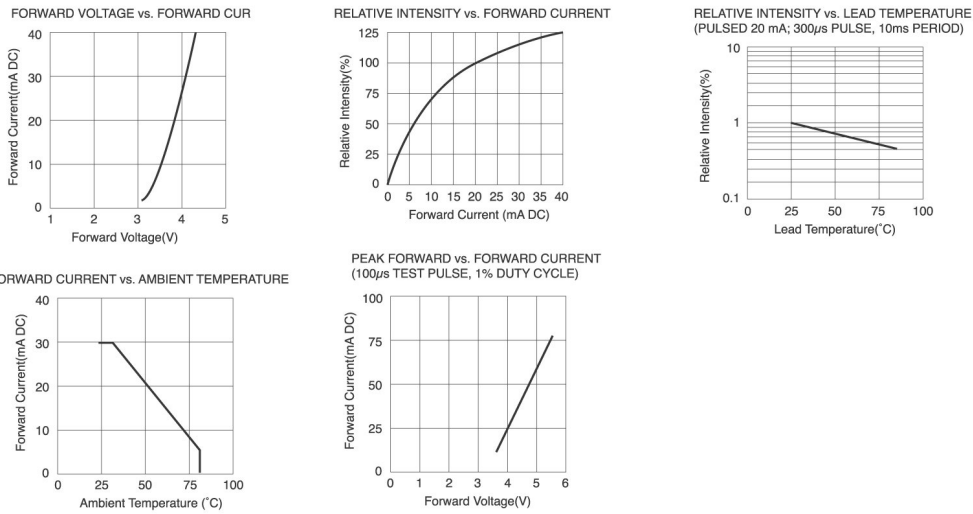
RED (AlGaInp)



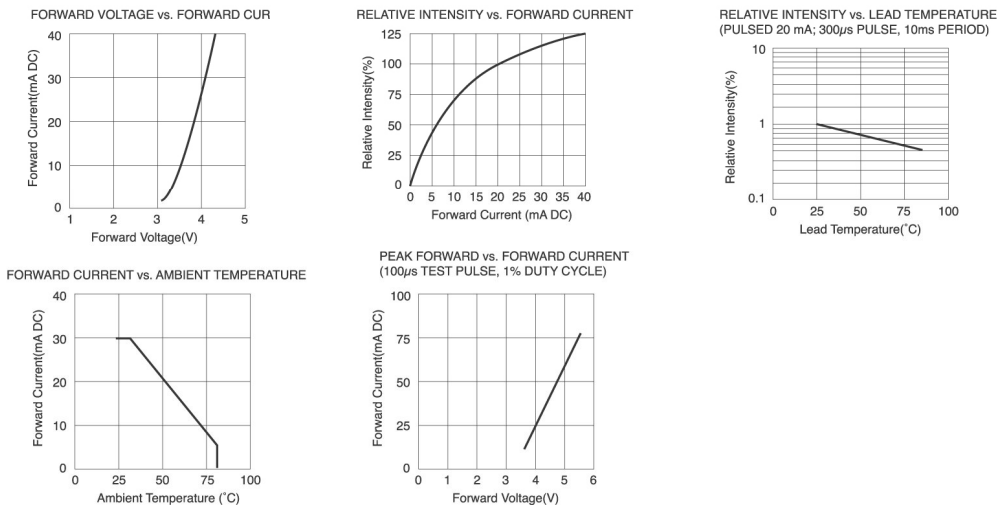
YELLOW (AlGaInp)



BLUE (In GaN) / WHITE (In GaN)



GREEN (In GaN)



RELIABILITY TEST:

TEST ITEM	TEST TERM	BUG CRITERION	n=SAMPLE c=BUG QTY	
OPERATING LIFE TEST	IF=MAXIMUM RATING CURRENT TA=25°C±3°C 1000±30 HOURS 4 MIN ON~4 MIN OFF		n=20 c=0	
HIGH TEMPERATURE STORAGE TEST	TA=TSTG MAX 1000±30°C HOURS		LI ≥ Lx.7	n=20 c=0
LOW TEMPERATURE STORAGE TEST	TA=TSTG MAX 1000±30°C HOURS		IR ≤ Ux2.2	n=20 c=0
HIGH TEMPERATURE HIGH HUMIDITY TEST	TA=65°C±3°C RH90+5%,-10% 1000 HOURS		VF ≤ Ux1.3	n=20 c=0
TEMPERATURE CYCLE TEST	-55°C~105°C (15MIN)(15MIN) * 10 CYCLE			n=20 c=0
THERMAL SHOCK TEST	0°C~100°C (5MIN)(5MIN) * 5 CYCLE			n=20 c=0
SOLDER DIP TEST	(TA=260°±5°C) T=FIRST DIP 50 5 SEC-COOLING 50 SEC-SECONDS *1 CYCLE MORE THAN 6MM AWAY FROM RESIN LED. LEADS PITCH KEEP ORIGINAL		(LI=MIN) (U=MAX)	n=20 c=0
SOLDERABILITY TEST	(TA=260°±5°C) T=4±1 SECONDS FLUX*1 CYCLE			n=20 c=0
DROP TEST	H=85CM ONE ANGLE, SIX SURF- ACES			n=20 c=0
VIBRATION TEST	F=600~3600HZ 1MIN CYCLE T=6 HOURS AT ACCELARTION OF 9 G TO EACH DIRECTION		n=20 c=0	