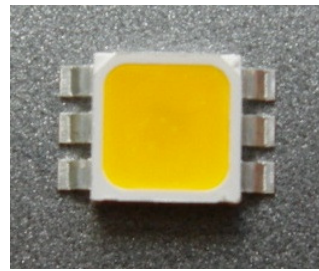


0.5W HIGH POWER SMD LED



ATTENTION: LED IS AN ELECTROSTATIC SENSITIVE DEVICE. HANDLE WITH PRECAUTION.



■ FEATURES

- Guaranteed minimum flux up to 35 for white, 7 for Blue, 20 for Green, 10 for Red and Yellow at 150mA
- Available in White (2,500K to 10,000K CCT), Blue, Green, Red and Yellow.
- Maximum drive current up to 200mA.
- Max junction temperature :120 °C
- No UV light
- Fast lit up response (less than 100nS)
- Electrically neutral thermal path
- Long lifetime of 50,000 hours.
- RoHS-compliant
- Compatible with most commonly available collimators in the market.

■ TYPICAL APPLICATIONS

- Street Lamp to replace HPS and LPS lamps.
- Commercial lightings to replace Halogen and fluorescent lamps.
- Reading lights in Car, Bus, Aircraft and Trains.
- Portable lights such as camping light, flashlight, bicycle headlamp, mining headlamp.
- Exterior and interior decorative lightings for shops, restaurants, hotels, discos, pubs, etc
- Signage lighting.
- Landscape lightings like parks, bridges, buildings.
- Automotive headlamp, tail lights and direction lights.
- Edge-lit signs.

0.5W HIGH POWER SMD LED**Flux Characteristics ($T_j = 25^{\circ}\text{C}$; $I_F = 150\text{mA}$)**

Color	CCT Range (K)	Luminous Flux(lm)	Ordering Code
White	5500~6500	25~35	NPT05W0255565D
White	5500~6500	35~45	NPT05W0355565D
Warm White	2700~3300	25~35	NPT05W0252733D
Warm White	2700~3300	35~45	NPT05W0352733D

Color	Wave Length (nm)	Luminous Flux(lm)	Ordering Code
Red	620~630	10~15	NPT05R0106263D
Yellow	585~595	10~15	NPT05Y0105859D
Blue	460~470	07~10	NPT05B0074647D
Green	520~530	20~30	NPT05G0205253D

Note: NPT maintains a tolerance of +/- 4% on flux measurements.

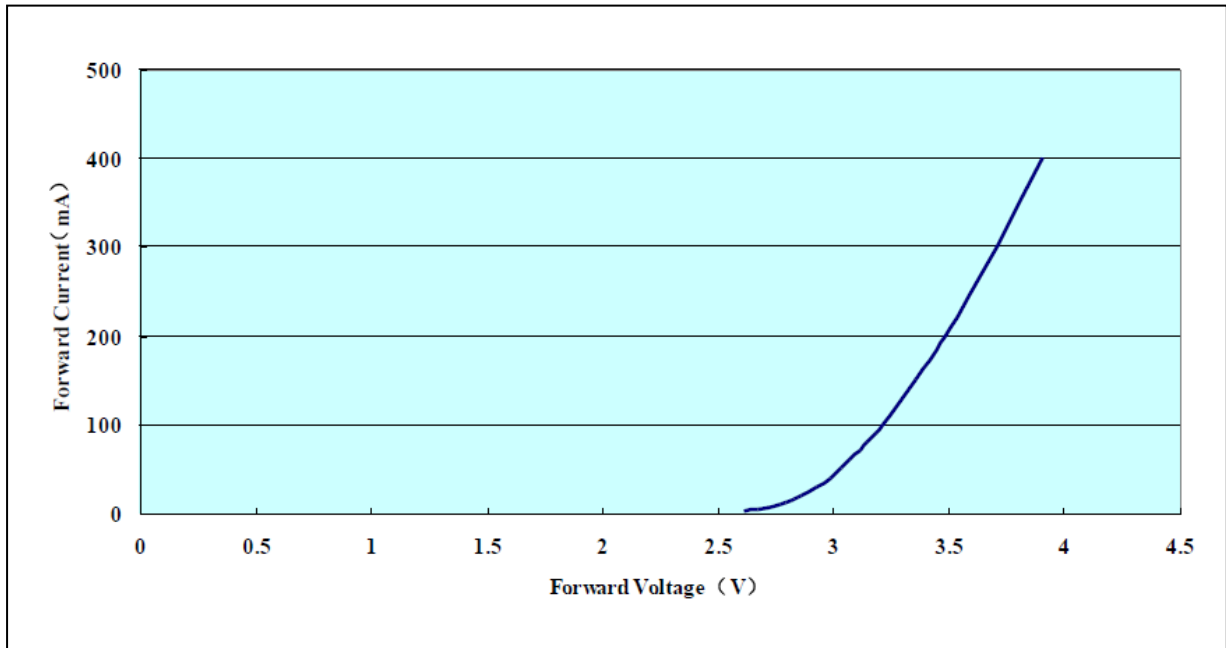
0.5W HIGH POWER SMD LED**Characteristics**

Characteristics	Unit	Minimum	Typical	Maximum
Viewing Angle	degrees	150	155	160
DC forward current	mA			150
DC pulse current (@ 1kHz, 10% duty cycle)	mA			200
Reverse voltage	V			5
Reverse Leakage current @5V	uA			10
Forward Voltage @150mA – White, Green, Blue	V	3.0	3.4	3.6
Forward Voltage @150mA – Red, Yellow	V	2.0	2.4	2.6
LED Junction Temperature	°C			120
Suggested operating case temperature	°C			85
Storage temperature	°C	-40		100
Electrostatic Discharge Threshold (HBM)	V			2000

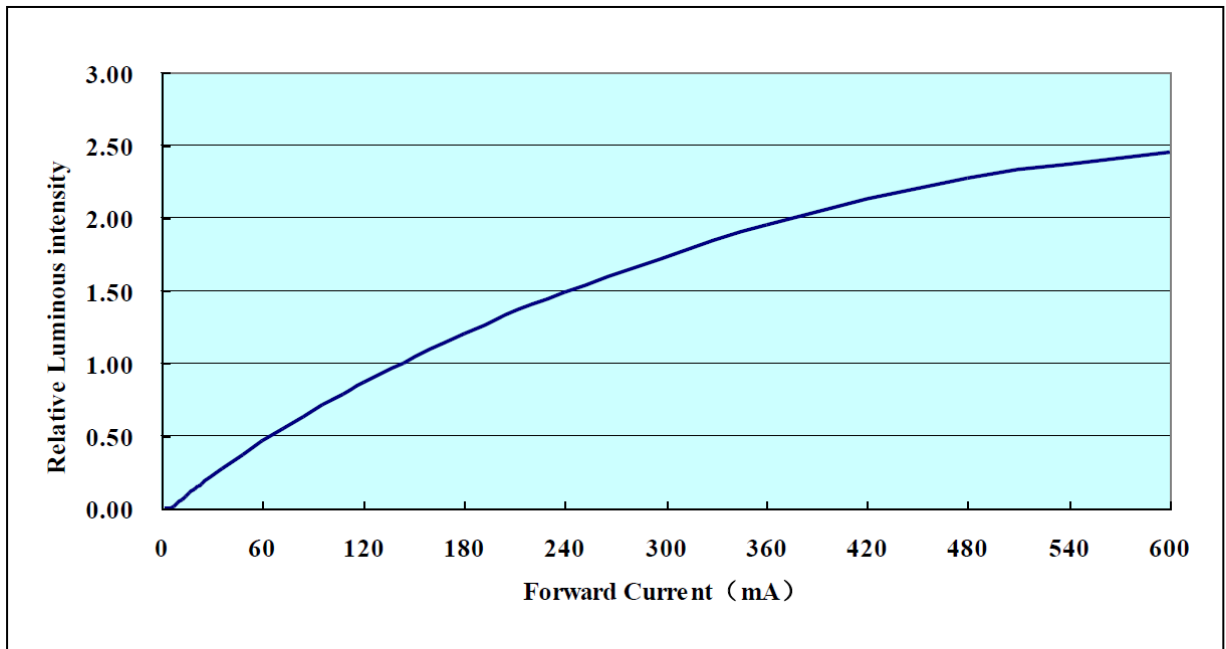
Note: NPT maintains a tolerance of +/- 0.1V on Forward Voltage measurements.

0.5W HIGH POWER SMD LED

Electrical Characteristics ($T_i = 25\text{ }^\circ\text{C}$)

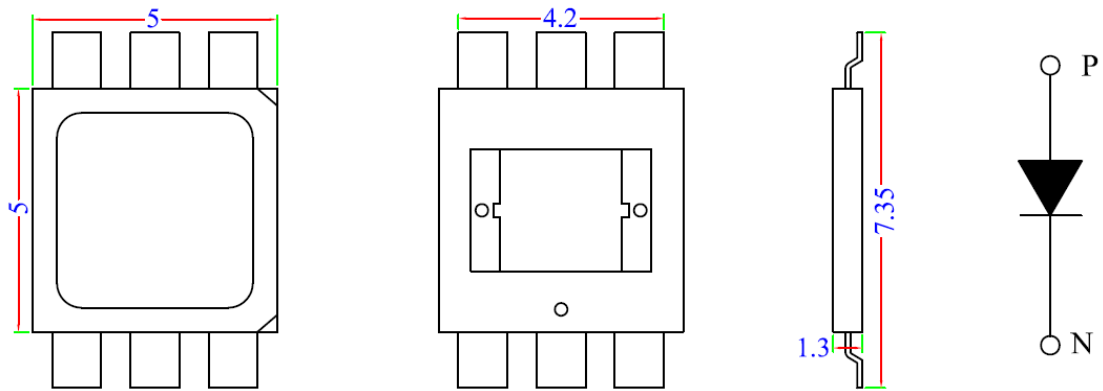


Relative Flux vs Current ($T_i = 25\text{ }^\circ\text{C}$)



0.5W HIGH POWER SMD LED

Outline dimensions



Note:

1. All units in mm
2. Tolerance +/- 0.25mm