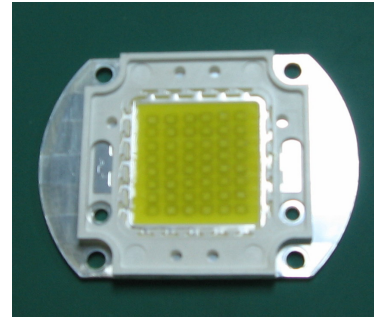


## 50W HIGH POWER LED



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



### ■ FEATURES

- Guaranteed minimum flux up to 5000lm for White at 1750mA
- Available in White (2,500K to 10,000K CCT)
- Maximum drive current up to 2000mA.
- 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

### ■ 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.
- Exterior and interior decorative lightings for shops, restaurants, hotels, discos, pubs, etc
- Signage lighting.
- Landscape lightings like parks, bridges, buildings.
- Automotive headlamp

**50W HIGH POWER LED****Flux Characteristics ( $T_j = 25^{\circ}\text{C}$  ;  $I_F = 1750\text{mA}$ )**

Color	CCT Range (K)	Luminous Flux(lm)	Ordering Code
White	5500~6500	5000~5500	NPT50W50005565
Warm White	2700~3300	5000~5500	NPT50W50002733

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

**Characteristics**

Characteristics	Unit	Minimum	Typical	Maximum
Viewing Angle	degrees	155	160	165
DC forward current	mA			1750
DC pulse current (@ 1kHz, 10% duty cycle)	mA			2000
Reverse voltage	V			5
Reverse Leakage current @5V	uA			10
Forward Voltage @1050mA	V		34	36
LED Junction Temperature	°C			120
Suggested operating heat sink temperature	°C			85
Storage temperature	°C	-40		100
Electrostatic Discharge Threshold (HBM)	V			3000

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

