



## **SPECIFICATION FOR APPROVAL**

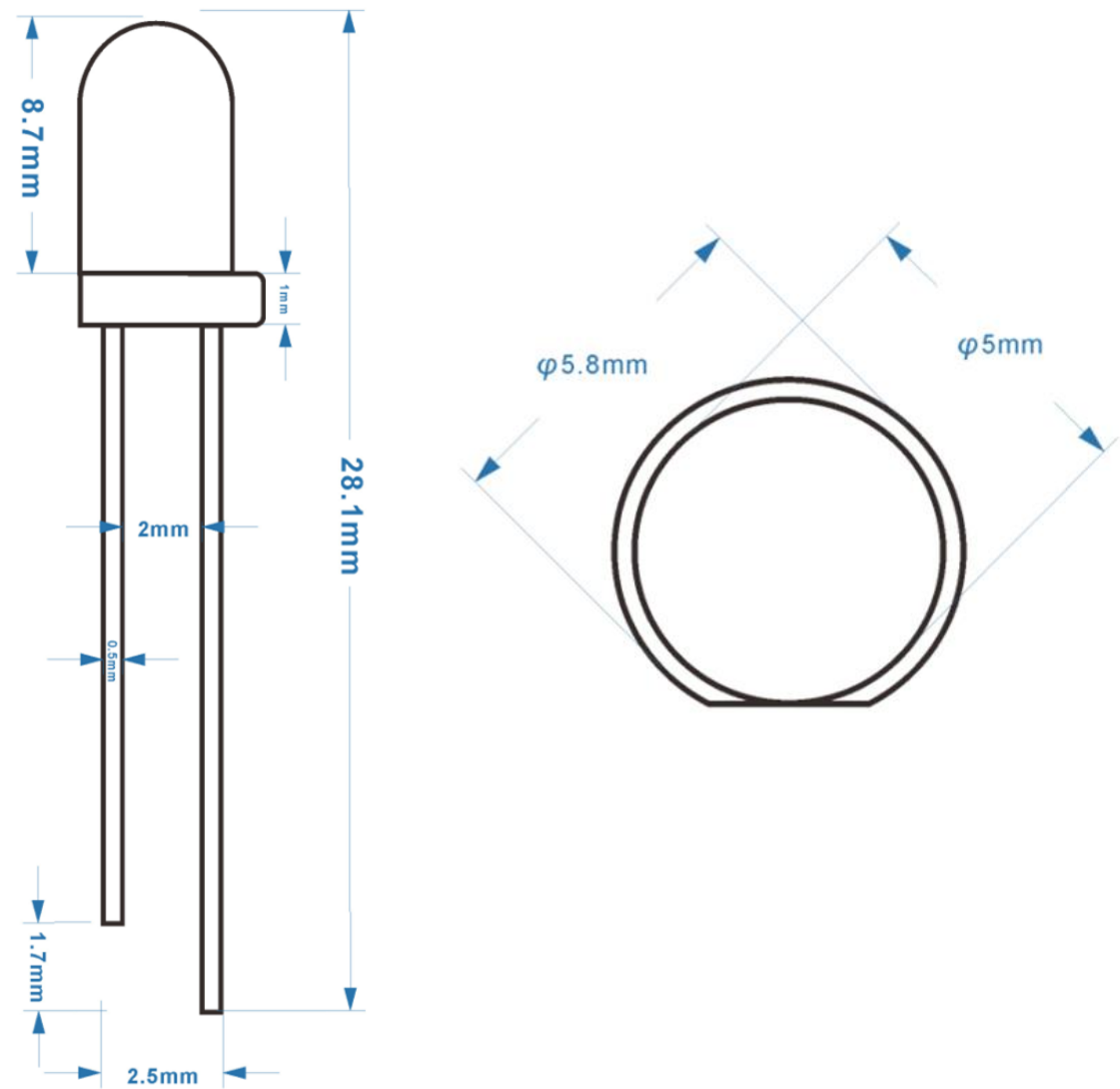
Part Name

**(5MM Round RED Diffused)**

**Product Characteristics:**

- Ultra Bright Brightness
- 5mm Round
- General Purpose Lead
- Highly Reliable

**Shape and Size:**



CHIP		Colloid	
Material	Gap	Material	Epoxy resin
Color	. RED	Color	Foggy red

### Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Value	Unit
Max Power Dissipation	$P_M$	80	mW
Max Continuous Forward Current	$I_{FM}$	20	mA
Max Reverse Voltage	$V_{RM}$	5	V
Peak Forward Current	$I_{FP}$	100	mA
Lead Soldering Temperature/Time	$T_{SOL}$	260/≤5S	℃/S
Operating Temperature Range	$T_{OPR}$	-40~+95	℃
Storage Temperature Range	$T_{STR}$	-40~+100	℃

### Initial Electrical Optical Characteristics

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity		$I_v$	400	—	500	mcd	$I_F=20mA$
Viewing Angle		2θ1/2	/	15	/	deg	$I_F=20mA$
Color Temperature		$\lambda_d$	8000	—	10000	K	$I_F=20mA$
Spectral Width at half height		$\Delta\lambda$	25	/	30	nm	$I_F=20mA$
Forward Voltage		$V_F$	2.0	/	2.2	V	$I_F=20mA$
Reverse Current		$I_R$	/	/	5	μA	$V_R=5V$

Aging experiments show that: the LED under normal operating conditions:  $I_F = 20mA$ ,  $V_F = 2.0 V$ , the service life of 1 - 3 million hours.

Note: According to anti-static welding operation (ground wire, wear static ring, wear cotton finger sets)