



MASTER INSTRUMENT CORPORATION

MODEL NO. : ML5FW13H-CEF

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Features:

- , HIGH LUMINOUS INTENSITY (WHITE EMISSION).
- , HIGH EFFICIENCY 5.0LM/W
- , TYPICAL EMISSION COLOR: X=0.29,Y=0.30
- , GRENERAL COLOR RENDERING INDEX, Ra=85
- , 20 DEGREE VIEW ANGLE

Applications:

- , DIRECT LIGHT ONLY

Dics Material	Light Color	Lens Color
InGaN	White	Water Clear

Absolute Ratings

(Ta=25℃)

Item	Symbol	Maximum	Unit
Power Dissipation	P _D	110	mW
Continuous Forward Current	I _F	25	mA
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Derating Linear Form 25℃		0.36	MA/℃
Operating temperature Range	Topr	-20 to +80	℃
Storage Temperature Range	Tstg	-30 to +85	℃
Electrostatic Discharge Threshold (HBM)	E _{ot}	1000	V

****Condition for IFP is pulse of 1/10 duty and 0.1 msec width.**

****Solder temperature 1.6mm from body for 5 seconds at 250℃ ±5℃.**

****Caution in ESD: Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, Equipment and machinery must be properly grounded.**

CHARACTERISITIC

(Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	IF=20mA		3.5	4.0	V
Reverse Current	I _R	VR=5V			10	uA
Viewing Angle	2d _{1/2}	IF=20mA		20		Deg
Luminous Intensity	I _V	IF=20mA	3000	5000		mcd



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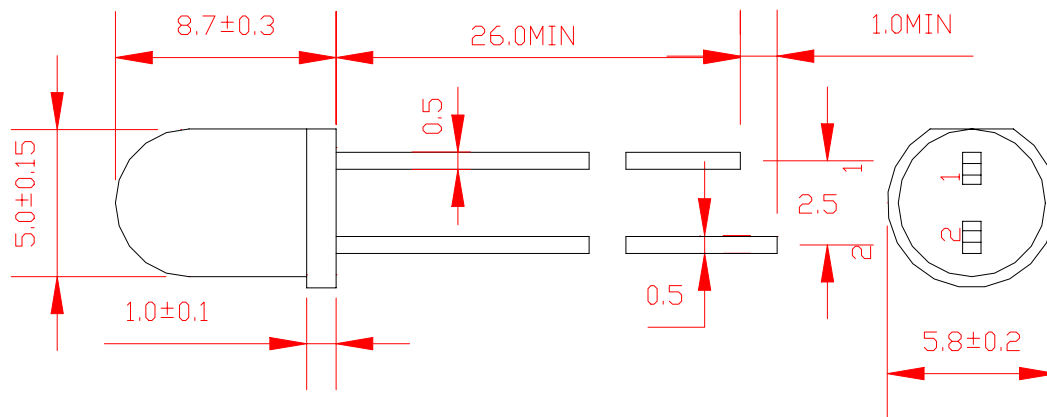
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É Package Dimensions (Unit: mm)

P-8

1. Cathode
2. Anode





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É Typical Optical-Electrical Characteristic Curves

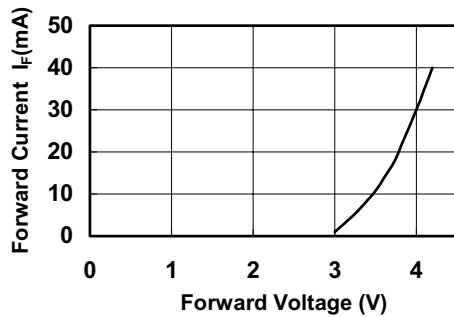


FIG1. FORWARD CURRENT VS. FORWARD VOLTAGE

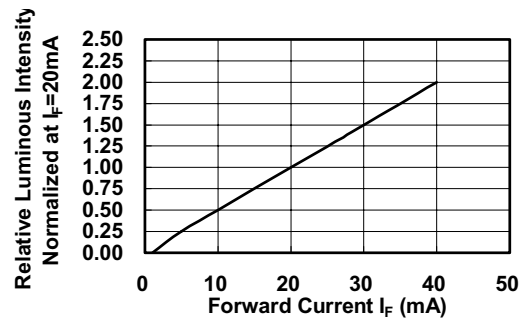


FIG2. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

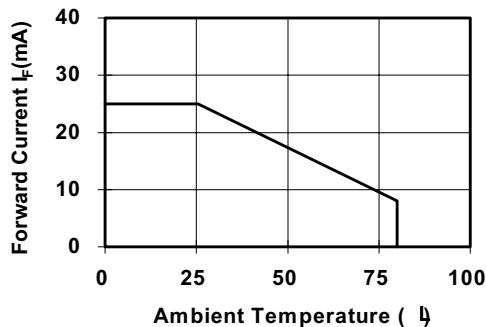


FIG3-27. FORWARD CURRENT VS. AMBIENT TEMPERATURE

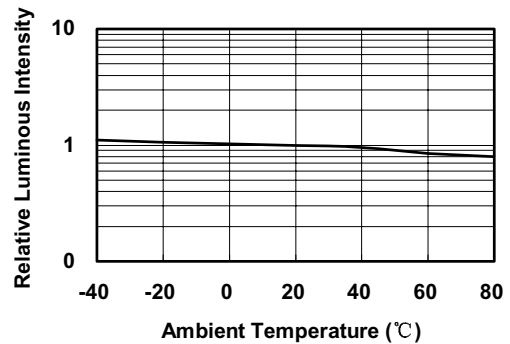


FIG4. LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

