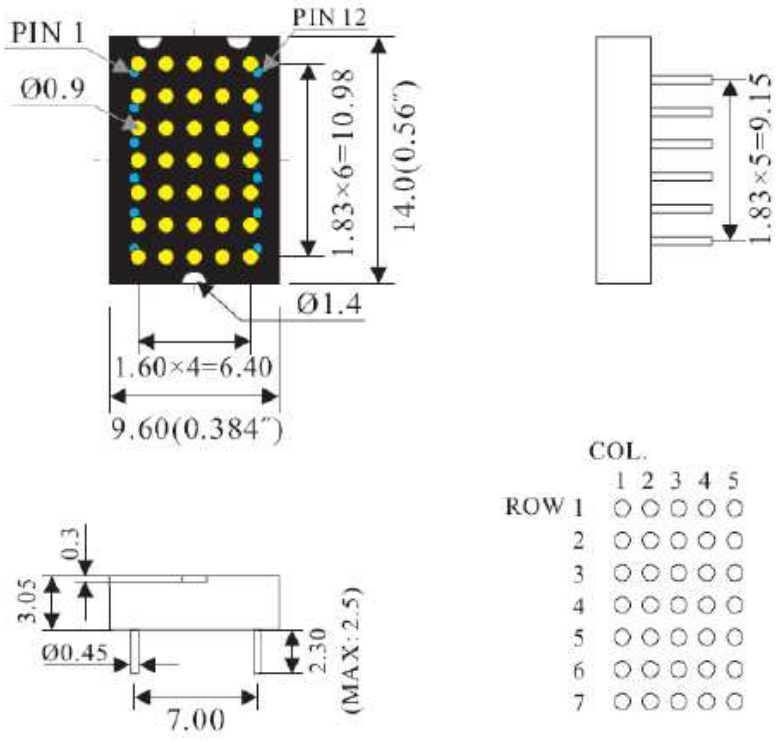
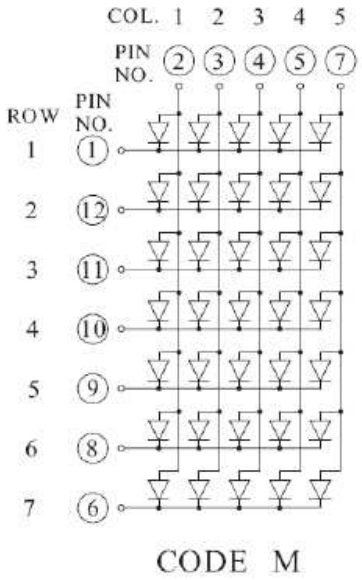
DOT-Matrix 5x7 weiß





CODE M

1. All dimensions are in millimeter(inch);
2. Tolerance is ±0.25mm(0.01") especially other specified;
3. Pin length, housing color, marking no & circuit diagram can be customized;
4. Specifications are subject to change without notice.

Chip Material: InGaN with Cree's proprietary G·Sic® Blue LED Chip (CODE WH1)

CREE® CHIPS

Pb-free

ABSOLUTE MAXIMUM RATINGS (Ta = 25℃)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	P_D	93	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	I_{PEAK}	100	mA
DC Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_A	-40°C to +100°C	
Storage Temperature Range	T_{STG}	-40°C to +100°C	
Electrostatic Discharge Threshold*		1000V	
Electrostatic Discharge Classification*		Class 2	
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			

***Product resistance to electrostatic discharge (ESD) according to the HBM is measured by simulating ESD using a rapid avalanche energy test (RAET). The RAET procedures are designed to approximate the minimum ESD ratings shown. The ESD classification of Class 2 is based on sample testing according to MIL-STD-883E.**

ELECTRICAL OPTICAL CHARACTER AND CURVES (Ta = 25℃)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	LOCATION	TEST CONDITION
Forward Voltage	V_F	2.70	2.90	3.10	V	Per Segment	I_F =20mA
Relative Flux	RF	10.0	11.0	12.0	mW	Per Segment	I_F =20mA
CIE Coordinates	x	--	0.31	--	--	Per Segment	I_F =20mA
	y	--	0.32	--	--	Per Segment	I_F =20mA
Reverse Current	I_R	-	-	2	uA	Per Segment	VR = 5V

Note:

1. **Luminous intensity tolerance is ±10%;**
2. **Dominant Emission Wavelength tolerance is ±5%.**

■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

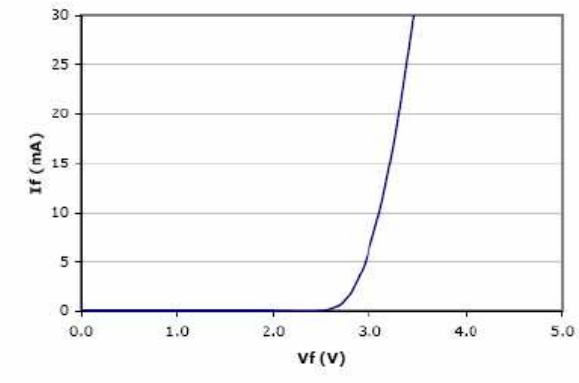


FIG. 2 Relative Intensity Vs. Forward Current

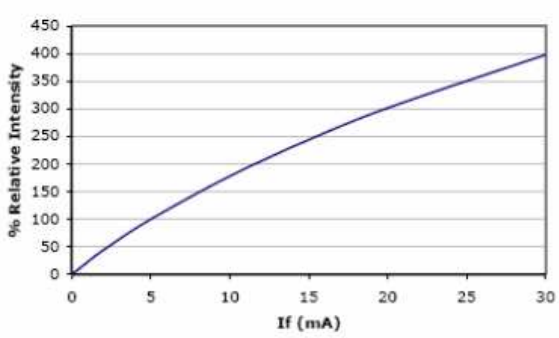


FIG. 3 Wavelength Shift Vs. Forward Current

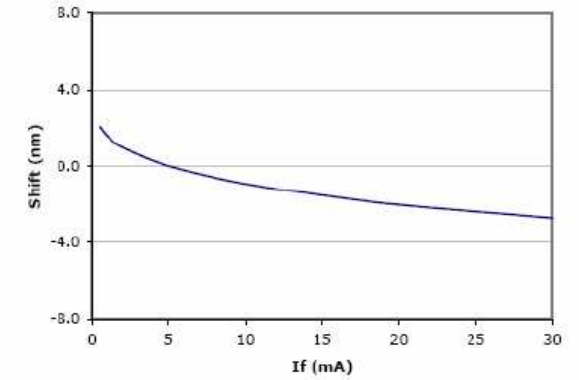


FIG. 4 Relative Intensity Vs. Wavelength

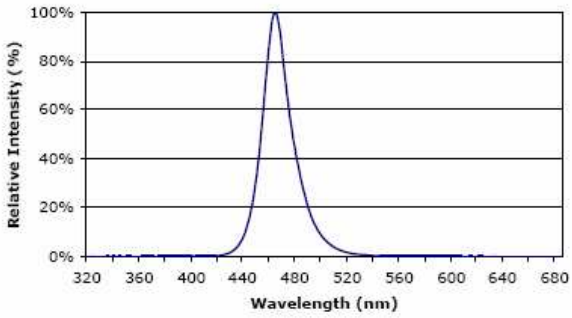


FIG. 5 This is a representative radiation pattern for the Ultra Thin Chip LED Product. Actual patterns will vary slightly for each chip.