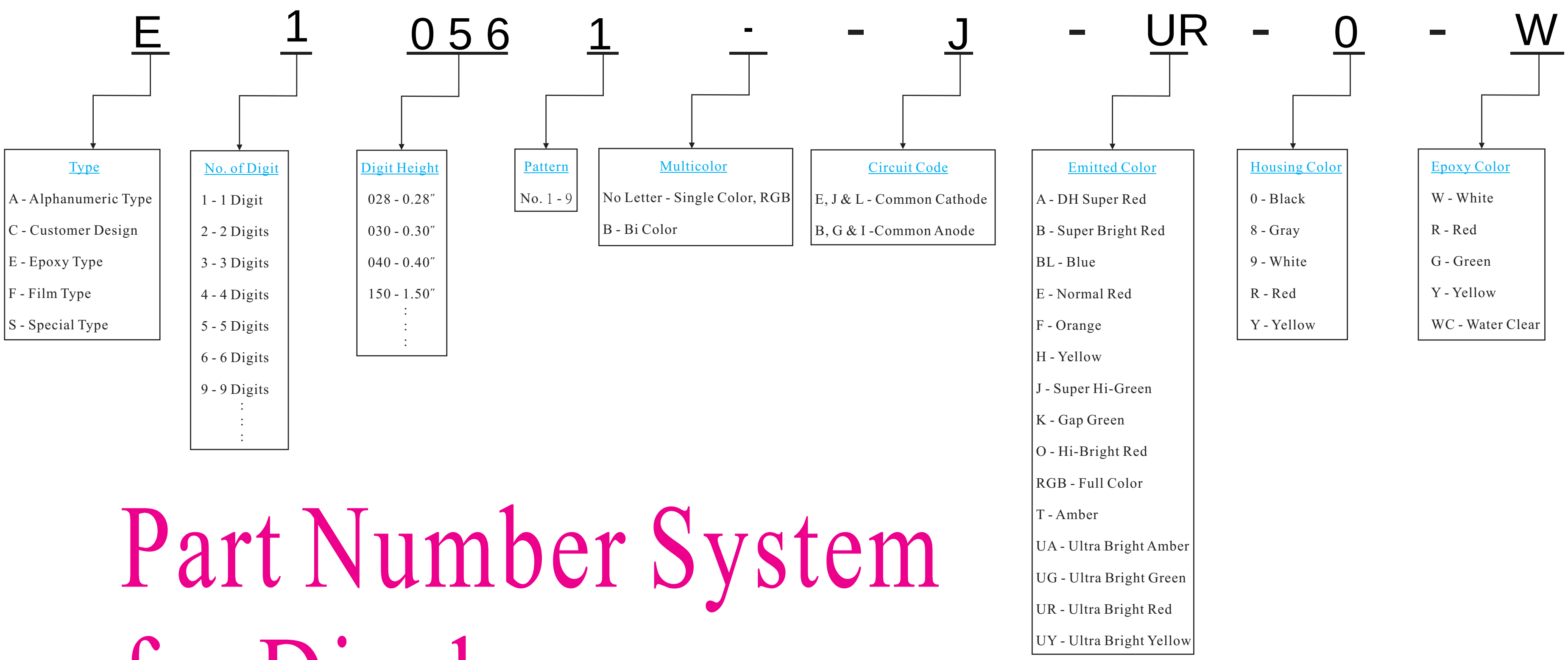


E 1 056 1 - - J - UR - 0 - W

Type
- A - Alphanumeric Type
- C - Customer Design
- E - Epoxy Type
- F - Film Type
- S - Special Type

No. of Digit
- 1 - 1 Digit
- 2 - 2 Digits
- 3 - 3 Digits
- 4 - 4 Digits
- 5 - 5 Digits
- 6 - 6 Digits
- 9 - 9 Digits
- :

Digit Height
- 028 - 0.28″
- 030 - 0.30″
- 040 - 0.40″
- 150 - 1.50″
- :

Pattern
- No. 1 - 9

Multicolor
- No Letter - Single Color, RGB
- B - Bi Color

Circuit Code
- E, J & L - Common Cathode
- B, G & I -Common Anode

Emitted Color
- A - DH Super Red
- B - Super Bright Red
- BL - Blue
- E - Normal Red
- F - Orange
- H - Yellow
- J - Super Hi-Green
- K - Gap Green
- O - Hi-Bright Red
- RGB - Full Color
- T - Amber
- UA - Ultra Bright Amber
- UG - Ultra Bright Green
- UR - Ultra Bright Red
- UY - Ultra Bright Yellow

Housing Color
- 0 - Black
- 8 - Gray
- 9 - White
- R - Red
- Y - Yellow

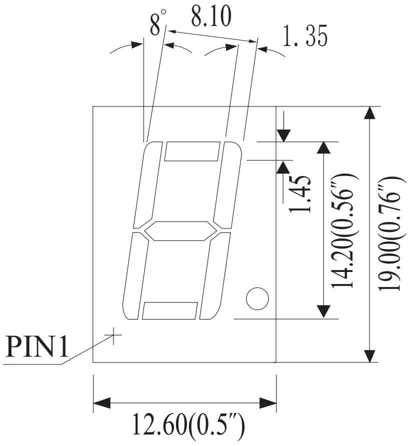
Epoxy Color
- W - White
- R - Red
- G - Green
- Y - Yellow
- WC - Water Clear

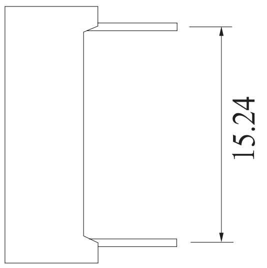
Part Number System for Displays

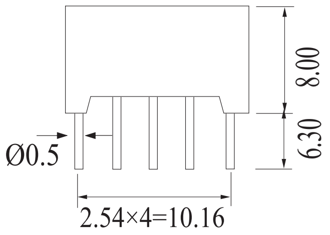
PACKAGE DIMENSION

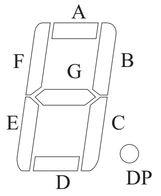
E10561

Pb-free



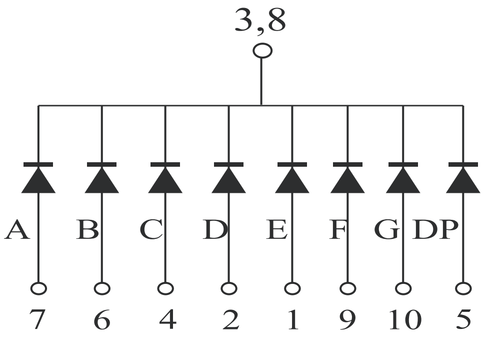




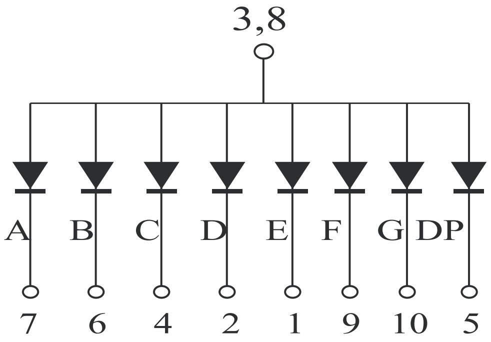


UNIT: MM(INCH) TOLERANCE: ±0.25(0.01″)

INTERNAL CIRCUIT DIAGRAM



CODE J



CODE G

CODE UR

Chip Material: AlGaInP / GaAs Ultra Bright Red LED Chip

Pb-free

ABSOLUTE MAXIMUM RATINGS (Ta = 25℃)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	P_D	72	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	I_{PEAK}	90	mA
DC Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_A	-40°C to +85°C	
Storage Temperature Range	T_{STG}	-40°C to +85°C	
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			

ELECTRICAL OPTICAL CHARACTER AND CURVES (Ta = 25℃)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	LOCATION	TEST CONDITION
Forward Voltage	V_F	-	2.10	2.40	V	Per Chip	I_F =20mA
Luminous Intensity	I_V	58.0	68.0	74.0	mcd	Per Chip	I_F =20mA
Peak Emission Wavelength	λp	-	645	-	nm	Per Chip	I_F =20mA
Dominant Emission Wavelength	λd	626	631	636	nm	Per Chip	I_F =20mA
Spectral Line Half-Width	Δλ1/2	-	20	-	nm	Per Chip	I_F =20mA
Capacitance	C	-	95	-	pF	Per Chip	VF=0V;f=1MHz
Reverse Current	I_R	-	-	10	uA	Per Chip	VR = 5V

Note:

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

CODE UR

■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

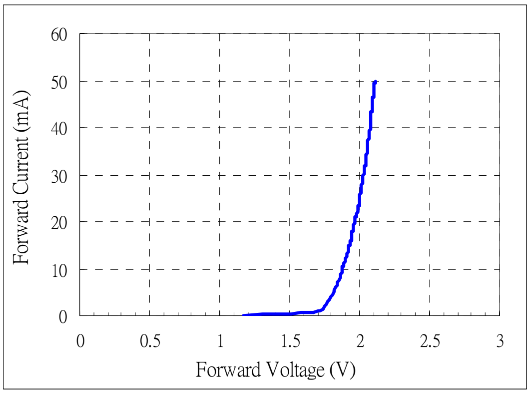


FIG. 2 Relative Intensity Vs. Forward Current

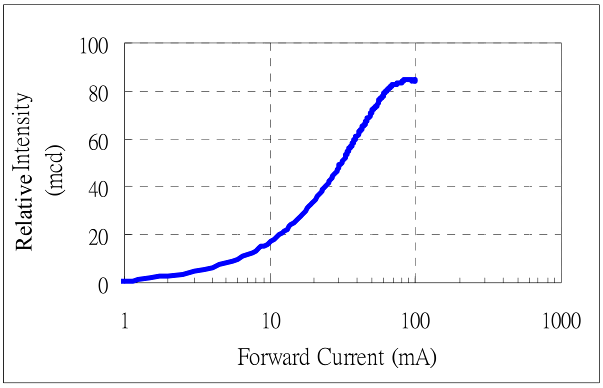


FIG. 3 Forward Voltage Vs. Temperature

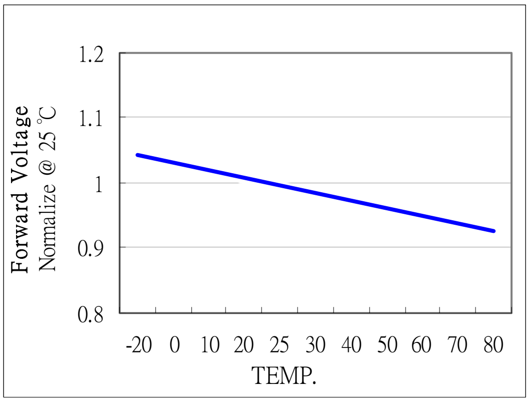


FIG. 4 Relative Intensity Vs. Temperature

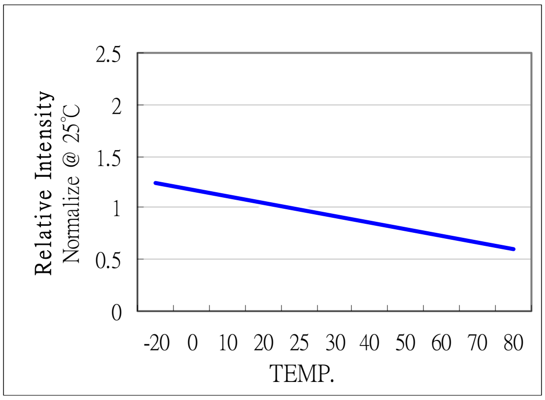


FIG. 5 Relative Intensity Vs. Wavelength