



TOYO LED ELECTRONICS LIMITED

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Emitted Color Code

CODE B

Chip Material: GaAlAs Super Red Color

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	P _D	60	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	I _{PEAK}	120	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°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	LOCATION	TEST CONDITION
Forward Voltage	V _F	-	1.85	2.00	V	Per Segment	I _F = 20mA
Luminous Intensity	I _v	24.0	25.0	27.0	mcd	Per Segment	I _F = 20mA
Peak Emission Wavelength	λ _p	-	660	-	nm	Per Segment	I _F = 20mA
Dominant Emission Wavelength	λ _d	640	643	643	nm	Per Segment	I _F = 20mA
Spectral Line Half-Width	Δλ _{1/2}	-	20	-	nm	Per Segment	I _F = 20mA
Capacitance	C	-	20	-	pF	Per Segment	V _F = 0V; f = 1MHz
Reverse Current	I _R	-	-	10	uA	Per Segment	V _R = 5V

RoHS COMPLIANT



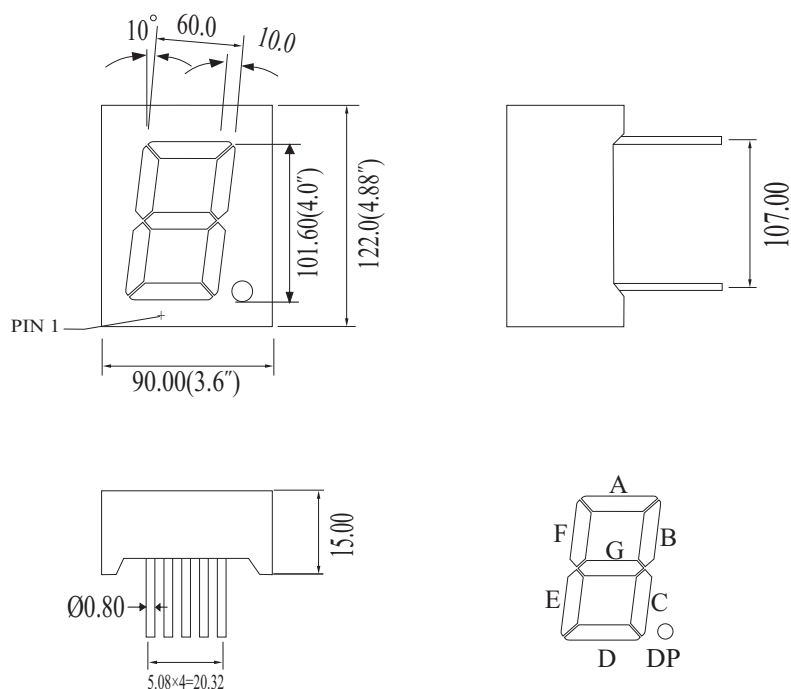
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PACKAGE DIMENSION

E14001



UNIT: MM(INCH) TOLERANCE: $\pm 0.25(0.01")$

INTERNAL CIRCUIT DIAGRAM

