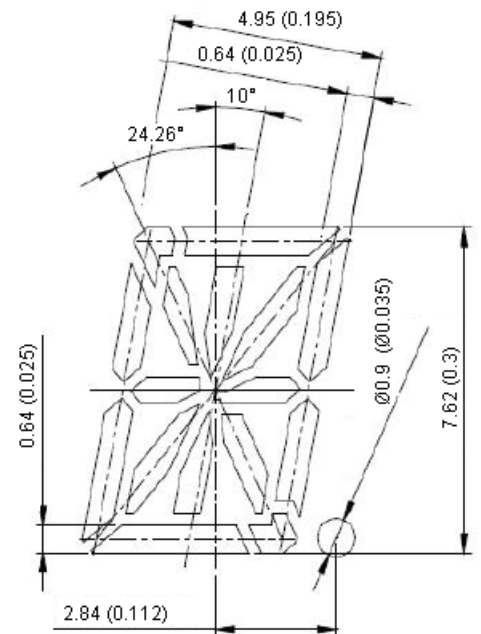
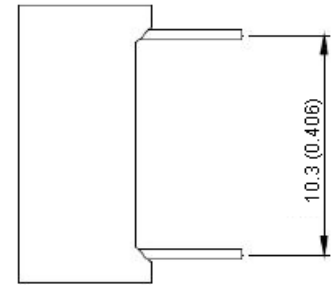
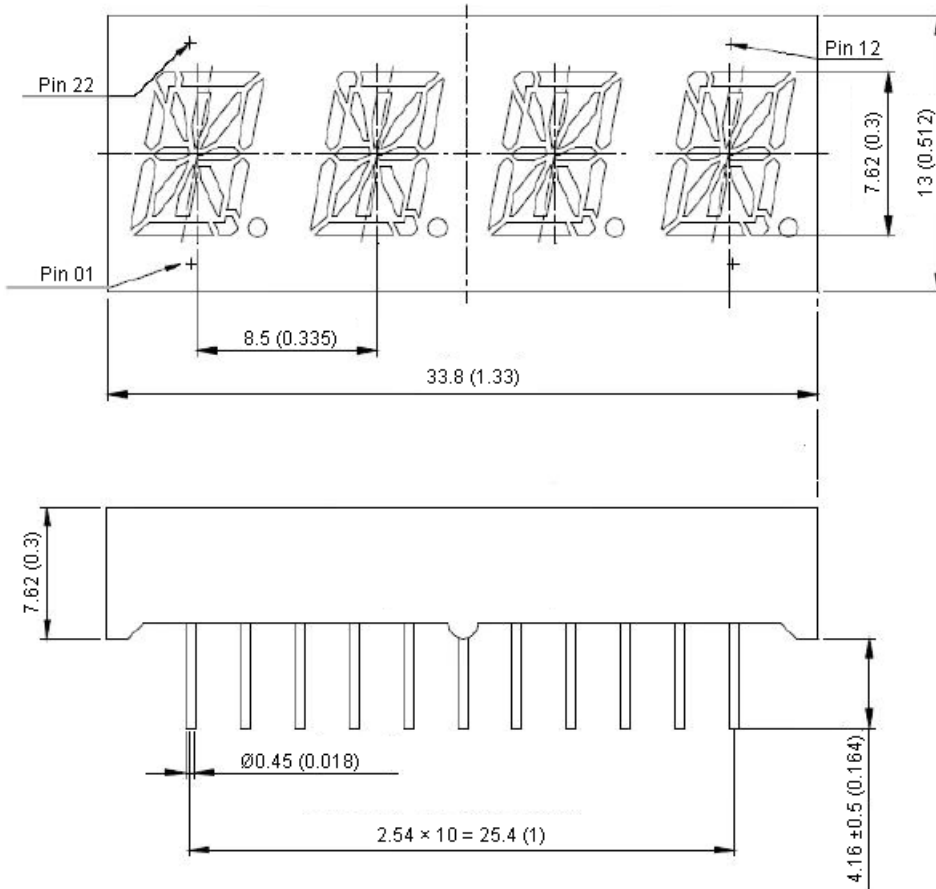


Alphanumeric Display



Dimensions : Millimetres (Inches)

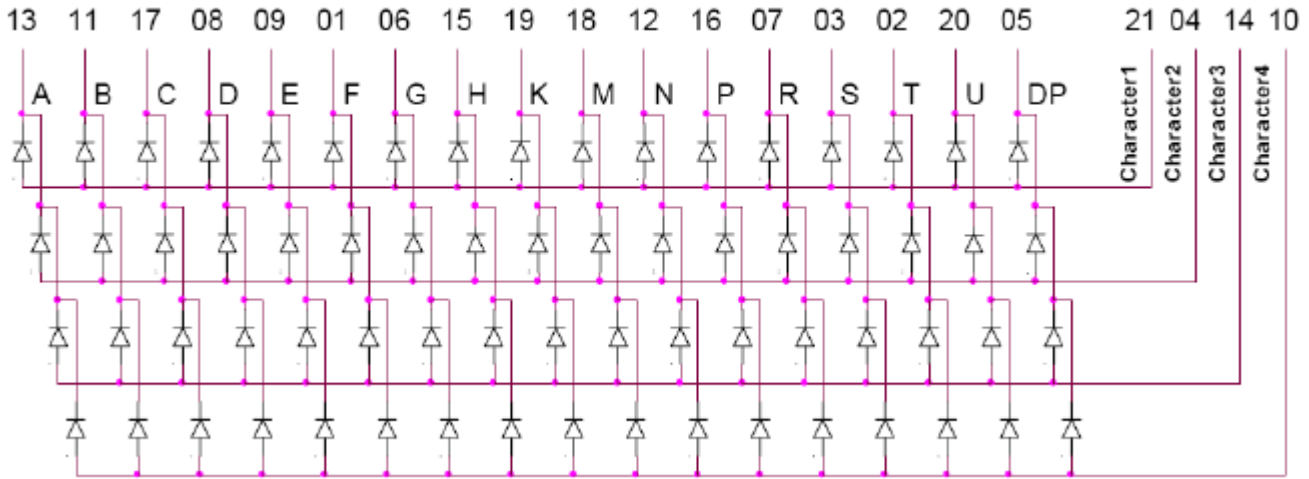
Notes : Tolerances are ±0.25 mm unless otherwise noted

Features:

- 0.3 inches (7.62 mm) digit height
- Continuous uniform segments
- Low power requirements
- Excellent characters appearance
- High brightness and high contrast
- Wide viewing angle
- Solder state reliability
- Lead-free package

Alphanumeric Display

Internal Circuit Diagram



Pin Connection

No.	Connection
1	Cathode F
2	Cathode T
3	Cathode S
4	Anode (Digit 2)
5	Cathode DP
6	Cathode G
7	Cathode R
8	Cathode D
9	Cathode E
10	Anode (Digit 4)
11	Cathode B
12	Cathode N
13	Cathode A
14	Anode (Digit 3)
15	Cathode H
16	Cathode P
17	Cathode C
18	Cathode M
19	Cathode K
20	Cathode U
21	Anode (Digit 1)
22	No Pin

Absolute Maximum Rating at $T_a = 25^\circ\text{C}$

Parameter	Max. Rating	Unit
Power dissipation per segment	75	mW
Peak forward current per segment (1 / 10 duty cycle, 0.1 ms pulse width)	100	mA
Continue forward current per segment derating linear from 25°C Per segment	25 0.33	mA mA / °C
Reverse voltage per segment	5	V
Operating temperature range	T_{opr} -35 to +85	°C
Storage temperature range	T_{stg} -35 to +85	°C
Soldering temperature	T_{sol} 260 to ± 5	°C
Solder temperature : Maximum 260°C for maximum 3 seconds at 1.6 mm below seating plane		

Electrical / Optical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remarks
Average luminous intensity per segment	IV	800	2,000	-	ucd	IF = 10 mA
Peak emission wavelength	λ_p	-	565	-	nm	IF = 20 mA
Dominant wavelength	λ_d	-	569	-	nm	IF = 20 mA
Spectral line half - width	$\Delta\lambda$	-	30	-	nm	IF = 20 mA
Forward voltage	Vf	-	2	2.6	V	IF = 20 mA
Reverse current	Ir	-	-	100	μA	VR = 5 V
Luminous intensity matching ratio	lv-m	-	-	2:1	-	IF = 10 mA

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

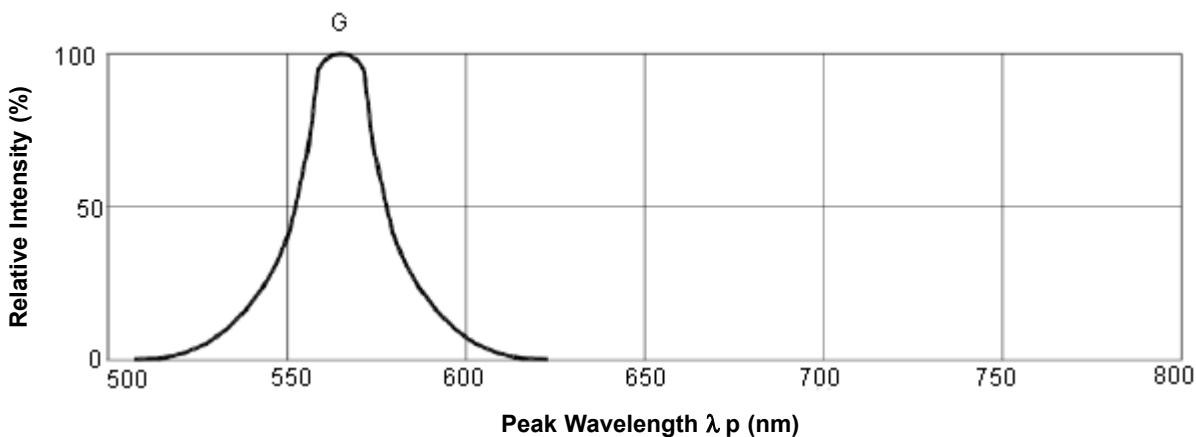


Fig 1. Spectral Emission

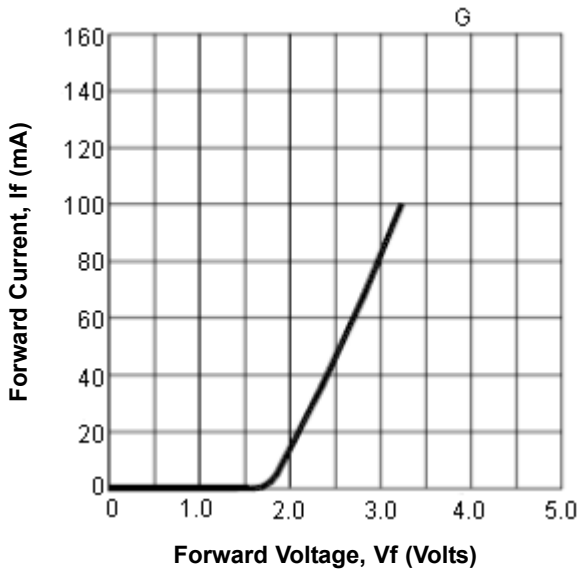


Fig 2. Forward Current vs. Forward Voltage

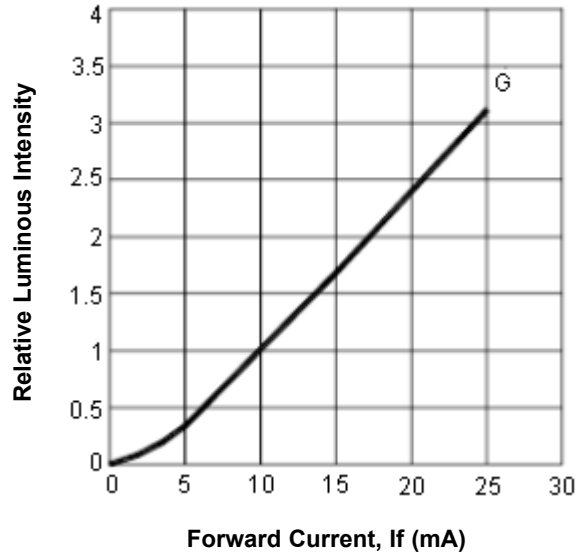


Fig 3. Relative Luminous Intensity vs. DC Forward Current

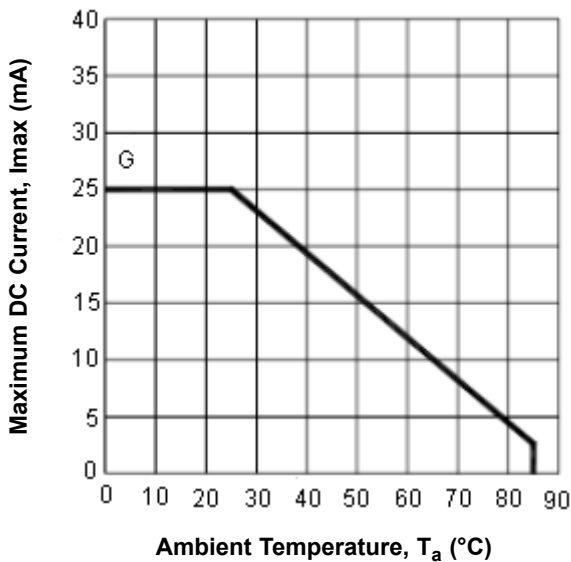


Fig 4. Maximum Allowable DC Current vs. Ambient Temperature

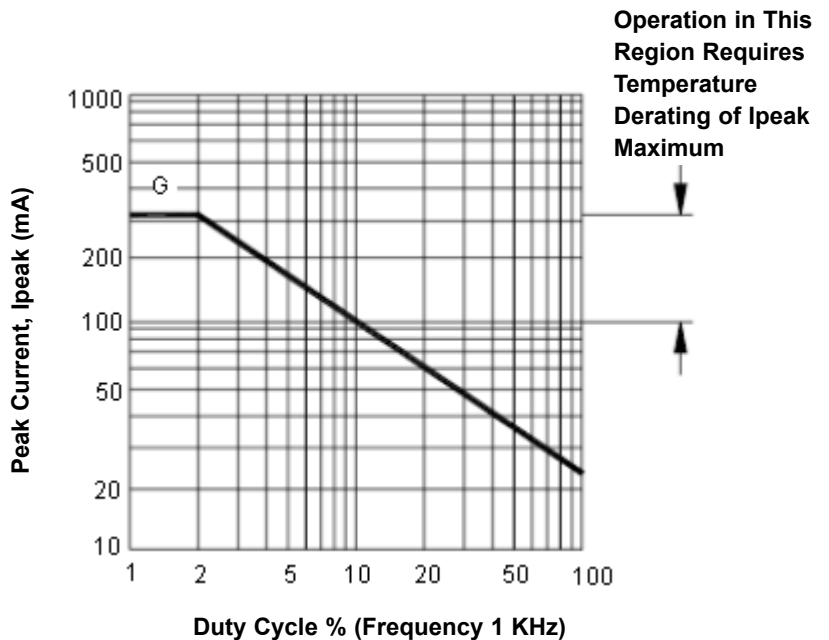


Fig 5. Maximum Peak Current vs. Duty Cycle %

Note : G = Green

Part Number Table

Description	Part Number
Alphanumeric Display	SPC33862

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