

QC:

ENG:

Prepared By:

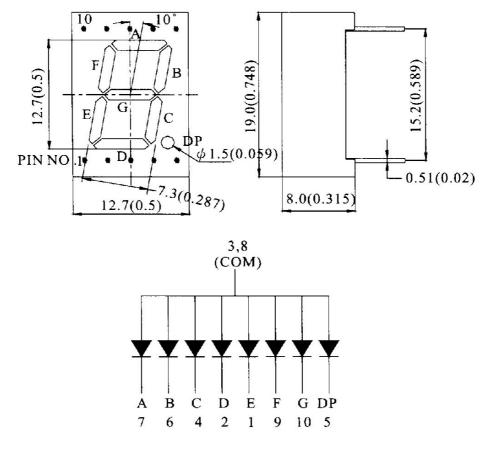
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Features:

- 0.50["]Single Digit Super Red.
- Common Anode (Common PIN 3 And PIN 8).
- Black Face, White Segment.

Package Dimension:



Part NO.	Face Color	Source Color	
KW1-501ASB	Black	Red	

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(.010")$ mm unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit		
Power Dissipation	100	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)100				
Continuous Forward Current	50	mA		
Derating Linear From 50°C	0.4	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to +80	-40°C to +80°C		
Storage Temperature Range	-40°C to +80	-40° C to $+80^{\circ}$ C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Sec	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	2500	3000		μ cd	IF=20mA (Note 1)	
Viewing Angle	2 heta 1/2				Deg	(Note 2)	
Peak Emission Wavelength	λρ	655	660	665	nm	I=20mA	
Dominant Wavelength	λd	535	540	545	nm	IF=20mA (Note 3)	
Spectral Line Half-Width	$ riangle \lambda$	19	24	29	nm	I=20mA	
Forward Voltage	V_{F}		1.8	2.4	V	I=20mA	
Reverse Current	Ir			100	μA	V _R =5V	

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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