

DATA SHEET



ENG:

Prepared By:

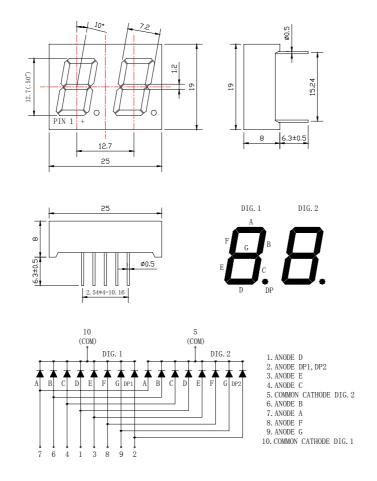
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Features

- 0.50" Dual Digit Super Red
- Common Cathode (Common PIN 10 And PIN 5)
- Black Face, White Segment

Package Dimension:



Part NO.	Chip Material	Face Color	Source Color	
KW2-502CRB	GaP	Black/white	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.



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	mA			
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°C	-40°C to +80°C			
Storage Temperature Range	-40°C to +80°C	-40°C to +80°C			
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds				

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	600	800		μcd	I=20mA (Note 1)
Viewing Angle	2 θ _{1/2}				Deg	(Note 2)
Peak Emission Wavelength	λp	695	700	705	nm	I=20mA
Dominant Wavelength	λd		697		nm	I=20mA (Note 3)
Spectral Line Half-Width	$\bigtriangleup \lambda$	24	29	34	nm	I=20mA
Forward Voltage	VF		2.1	2.8	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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