

DESCRIPTION:

The KW1-1801 series is large single digit display in 1.80 inch (45.00mm) height with right DP designed for accurate readable displays need to be viewed over a distance.

This series is suitable for use in instruments, digital readout displays. All devices are available as either common anode or common cathode.

ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

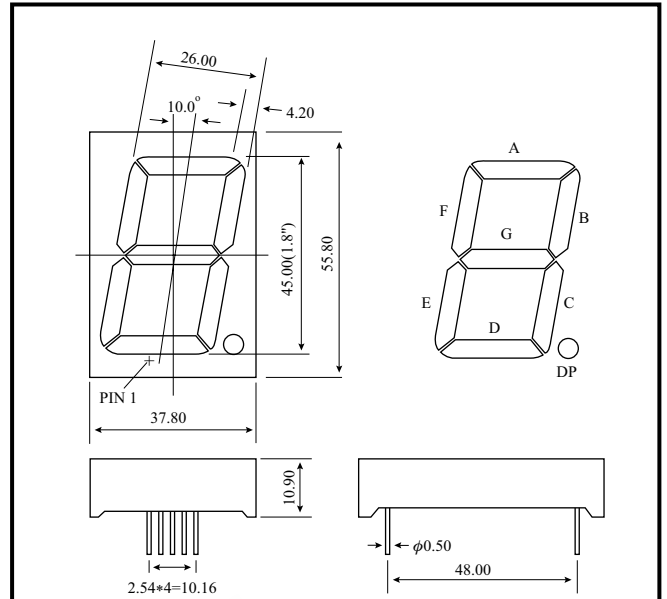
Parameter	Max
Reverse Voltage per segment	5 V
Reverse Current per segment (Vr = 5V)	100μA
Derating Linear from 25°C per segment	0.4mA/ °C
Operating Temperature Range	-40°C To 85°C
Storage Temperature Range	-40°C To 100°C
Soldering Temperature 1.6mm(1/16") from body for 5 sec. at 260°C	

- NOTES : 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25mm(0.010) unless otherwise specified.
 3. Specifications are subject to change without notice.
 4. NP: No Pin.
 5. NC: No Connect.

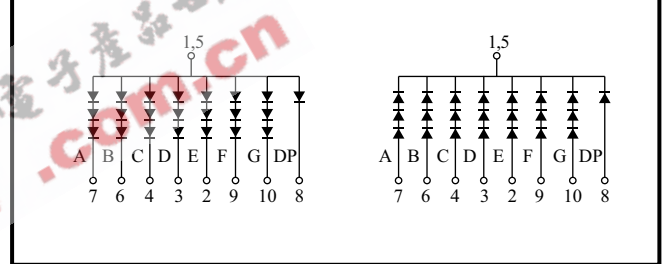
TESTING CONDITION FOR EACH PARAMETER :

Parameter	Symbol	Unit	Test Condition
Forward Voltage	Vf	V	If=20mA
Peak Emission Wave Length	λp	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current	Ir	μA	Vr=5V
Average Luminous Intensity	Iv	μcd	If=10mA

PACKAGE DIMENSIONS



INTERNAL CIRCUIT DIAGRAM



PART NO. SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Chip		C.C or C.A	Wave Length λp (nm)	Absolute Maximum Ratings				Electro-optical Data(at 10mA)					
	Raw Material	Emitted Color			Δλ (nm)	Pd (mW)	If (mA)	If (Peak) (mA)	Vf (V) Per Segment			If (Rec) (mA)	Iv (μcd) Per Segment	
									Min.	Typ.	Max.		Min.	Typ.
KW1-1801A3	GaAsP/GaP	Hi-Eff. Red	Common Anode	635	45	100	50	100	5.1	6.0	8.4	10-20	1800	5600
KW1-1801AS	GaAlAs	Super Red		660	20	100	50	100	4.8	5.4	6.3	10-20	10000	40000
KW1-1801A2	GaP	Green		565	30	100	50	100	5.1	6.3	8.4	10-20	1600	5200
KW1-1801AG	GaP	Super Green		570	30	100	50	100	5.1	6.3	8.4	10-20	1800	5500
KW1-1801A6	GaAsP/GaP	Yellow		585	30	100	50	100	5.1	6.3	8.4	10-20	1600	5200
KW1-1801C3	GaAsP/GaP	Hi-Eff Red	Common Cathode	635	45	100	50	100	5.1	6.0	8.4	10-20	1800	5600
KW1-1801CS	GaAlAs	Super Red		660	20	100	50	100	4.8	5.4	6.3	10-20	10000	40000
KW1-1801C2	GaP	Green		565	30	100	50	100	5.1	6.3	8.4	10-20	1600	5200
KW1-1801CG	GaP	Super Green		570	30	100	50	100	5.1	6.3	8.4	10-20	1800	5500
KW1-1801C6	GaAsP/GaP	Yellow		585	30	100	50	100	5.1	6.3	8.4	10-20	1600	5200

- REMARKS : 1. The average luminous intensity is obtained by summing the luminous intensity of each segment and dividing by the total number of segments.
 2. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (International Commission on Illumination) eye-response curve.
 3. Clean only by pure water, isopropanol, ethanol, Freon TF (or equivalent).