

KW4-281 SERIES

LED Numeric Display Four Digit (0.28")

DESCRIPTION:

The KW4-281 series is 0.28 inch (7.00mm) height four digit display. 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)	100μΑ					
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						

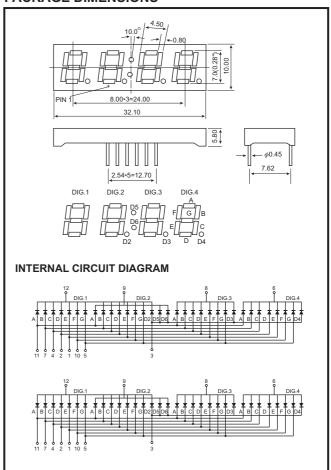
NOTES: 1. All dimensions are in millimeters (inches).

- 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	λρ	nm	If=20mA			
Spectral Line Half-Width	Δλ	nm	If=20mA			
Reverse Current	lr	μΑ	Vr=5V			
Average Luminous Intensity	lv	μ cd	If=10mA			

PACKAGE DIMENSIONS



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

	Chip		0.0	Wave	Absolute Maximum Ratings				Electro-optical Data(at 10mA)						
Part No.	Raw Material	Emitted Color	C.C or C.A	Length λρ (nm)	Δλ (nm)	Pd (mW)	If (mA)	If (Peak) (mA)	Vf (V) Per Segment Min. Typ. Max.		If (Rec) mA		μcd) egment Typ.		
KW4-281A3	GaAsP/GaP	Hi-Eff. Red		635	45	100	50	100	1.7	1,9	2.6	10-20	700	1800	
			Common Anode												
KW4-281AS	GaAlAs	Super Red		660	20	100	50	100	1.5	1.9	2.6	10-20	1500	5000	
KW4-281A2	GaP	Green		565	30	100	50	100	1.7	2.2	2.6	10-20	700	1600	
KW4-281AG	GaP	Super Green		570	30	100	50	100	1.7	2.2	2.6	10-20	850	1900	
KW4-281A6	GaAsP/GaP	Yellow		585	30	100	50	100	1.7	1.9	2.6	10-20	600	1500	
KW4-281C3	GaAsP/GaP	Hi-Eff Red	Common Cathode	635	45	100	50	100	1.7	1.9	2.6	10-20	700	1800	
KW4-281CS	GaAlAs	Super Red		660	20	100	50	100	1.5	1.9	2.6	10-20	1500	5000	
KW4-281C2	GaP	Green		565	30	100	50	100	1.7	2.2	2.6	10-20	700	1600	
KW4-281CG	GaP	Super Green		570	30	100	50	100	1.7	2.2	2.6	10-20	850	1900	
KW4-281C6	GaAsP/GaP	Yellow		585	30	100	50	100	1.7	1.9	2.6	10-20	600	1500	

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).