



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Single Digit Surface Mount LED Numeric Display

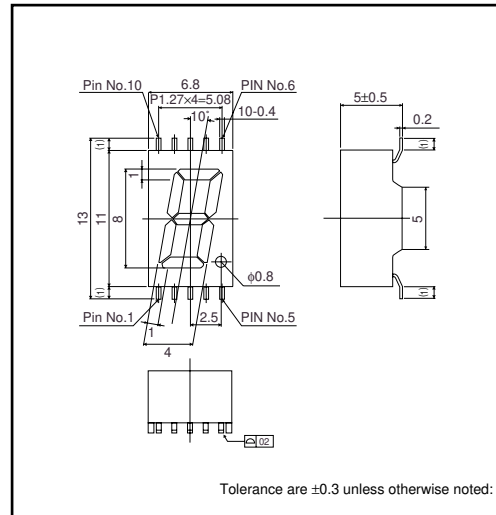
LF-301 A / K Series

LF-301 A / K series of Single Digit Surface Mount LED Numeric Display which the height of a letter 8mm have ROHM original structure that realizes re-flow soldering.

●Features

- 1) Re-flow soldering
- 2) Pb-free available
- 3) Automatic mounting with taping pack

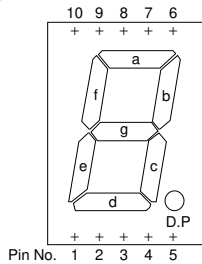
●External dimensions (Unit : mm)



●Selection guide

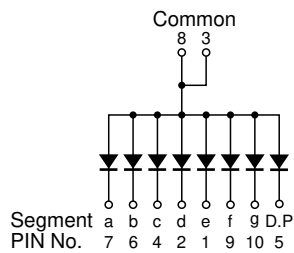
Common	Emitting color	
	Red	Green
Anode	LF-301VA	LF-301MA
Cathode	LF-301VK	LF-301MK

●Pin assignments

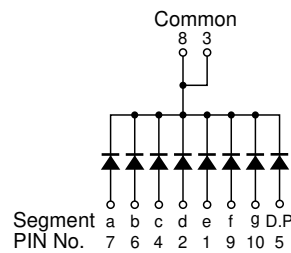


Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

●Equivalent circuit (anode common)



(cathode common)



LED displays

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Green	Unit
		LF-301VA / VK	LF-301MA / MK	
Power dissipation	P _D	320	480	mW
Power dissipation	P _D / seg	40	60	mW
Forward current	I _F	15	20	mA
Peak forward current	I _{FP}	60 *	60 *	mA
Reverse voltage	V _R	5	5	V
Operating temperature	T _{opr}	-25 to +75		°C
Storage temperature	T _{stg}	-30 to +85		°C

*Pulse width 1ms Duty 1 / 5

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Red		Green		Unit
			Typ.	Max.	Typ.	Max.	
Forward voltage	V _F	I _F =10mA	2.0	2.8	2.1	2.8	V
Reverse current	I _R	V _R =3V	–	100	–	100	μA
Peak wavelength	λ _P	I _F =10mA	650	–	563	–	nm
Spectral line half width	Δλ	I _F =10mA	40	–	40	–	nm

© The products are not radiations resistant.

●Luminous intensity

Color	λ _P (nm)	Type	Min.	Typ.	Unit
Red	650	LF-301VA	3.6	10	mcd
		LF-301VK			
Green	563	LF-301MA	3.6	10	mcd
		LF-301MK			