

Dimensions

Pin No.10

3

Pin No.1

 PIN No.6

0.8 PIN No.5

02

Tolerance are ± 0.3 unless otherwise noted:

5.08 10-0.4 5±0.5

0.2

Ξ.

LF-3011 A / K Series

Data Sheet

LF-3011A / 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.

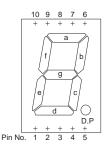
• Features

- 1)Re-flow soldering *
- 2)Pb-free available
- 3)Automatic mounting with taping pack
- *Number of re-flow process shall be recommend 1 time by our re-flow condition

•Selection guide

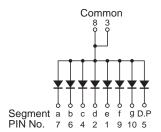
Emitting color Common	Red	Green
Anode	LF-3011VA	LF-3011MA
Cathode	LF-3011VK	LF-3011MK

Pin assignments

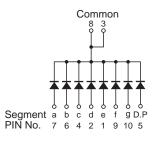


Pin No. Function Segment "e" 1 2 Segment "d" 3 Common 4 5 Segment "c" D.P 6 Segment "b" 7 Segment "a" 8 Common Segment "f" 9 10 Segment "g"

•Equivalent circuit (anode common)



(cathode common)



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●Absolute maximum ratings (Ta=25°C)

Deremeter	Sumbol	Red	Green	Unit	
Parameter	Symbol	LF-3011VA / VK	LF-3011MA / MK	Unit	
Power dissipation	PD	320	480	mW	
Power dissipation	P _D / seg	40	60	mW	
Forward current	IF	15	20	mA	
Peak forward current	IFP	60 *	60 *	mA	
Reverse voltage	VR	5	5	V	
Operating temperature	Topr	–25 t	o +75	°C	
Storage temperature	Tstg	-30 to +85		°C	

*Pulse width 1ms Duty 1 / 5

•Electrical characteristics (Ta=25°C)

Parameter	Symbol Condi	Conditiona	R		Green		Linit
		Conditions	Тур.	Max.	Тур.	Max.	Unit
Forward voltage	VF	I⊧=10mA	2.0	2.8	2.1	2.8	V
Reverse current	Ir	Vr=3V	_	100	-	100	μA
Peak wavelength	λρ	I _F =10mA	650	-	563	-	nm
Spectral line half width	Δλ	I _F =10mA	40	_	40	_	nm

O The products are not radiations resistant.

Luminous intensity

Color	λ _P (nm)	Туре	Min.	Тур.	Unit
Red	650	LF-3011VA	3.6	10	mcd
		LF-3011VK	3.0		
Green	563	LF-3011MA	3.6	10	mcd
		LF-3011MK	3.0		



•Electrical and optical characteristic curves

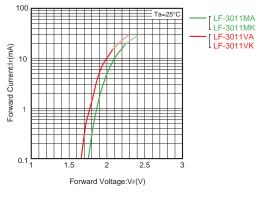


Fig.1 Forward Current - Forward Voltage

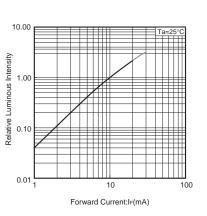


Fig.2 Relative Luminous Intensity - Forward Current

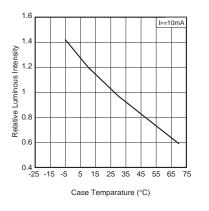


Fig.3 Relative Luminous Intensity - Case Temperature

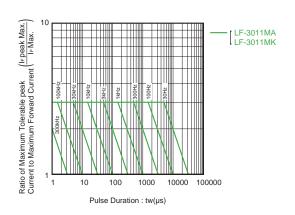


Fig.4 Ratio of Maximum Tolerable Peak Current - Pulse Duration (I)

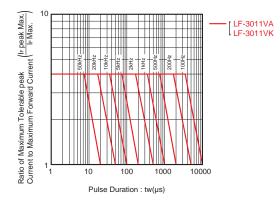


Fig.5 Ratio of Maximum Tolerable Peak Current - Pulse Duration (II)

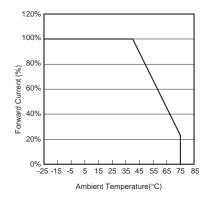


Fig.6 Derating

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