

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.

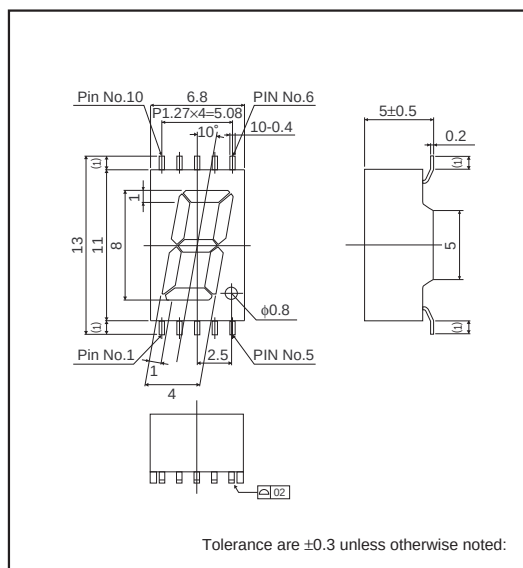
● Features

- 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

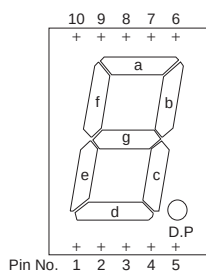
● Selection guide

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

●Dimensions

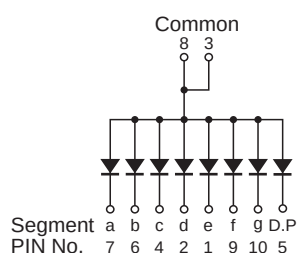


●Pin assignments

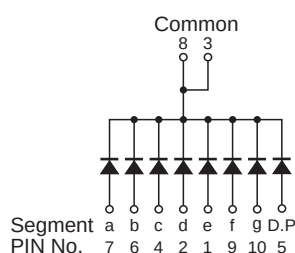


Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

●Equivalent circuit (anode common)



(cathode common)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Green	Unit
		LF-3011VA / VK	LF-3011MA / 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	Topr	-25 to +75		°C
Storage temperature	Tstg	-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-3011VA	3.6	10	mcd
		LF-3011VK			
Green	563	LF-3011MA	3.6	10	mcd
		LF-3011MK			

●Electrical and optical characteristic curves

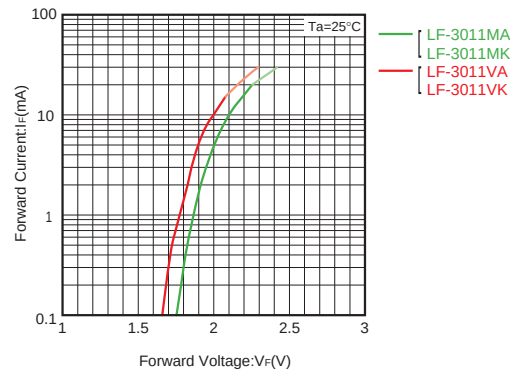


Fig.1 Forward Current - Forward Voltage

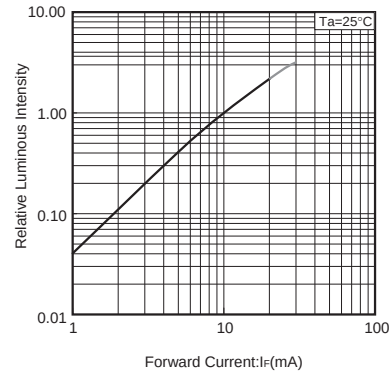


Fig.2 Relative Luminous Intensity - Forward Current

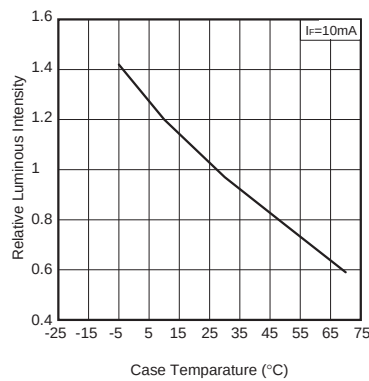


Fig.3 Relative Luminous Intensity - Case Temperature

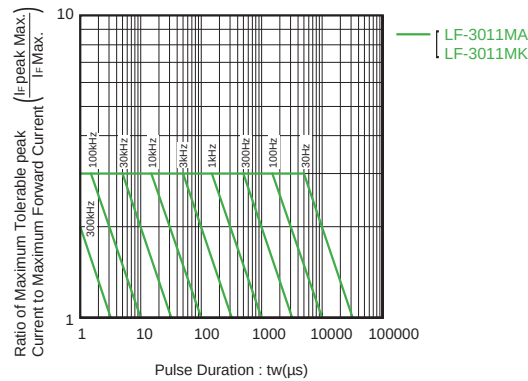


Fig.4 Ratio of Maximum Tolerable Peak Current - Pulse Duration (I)

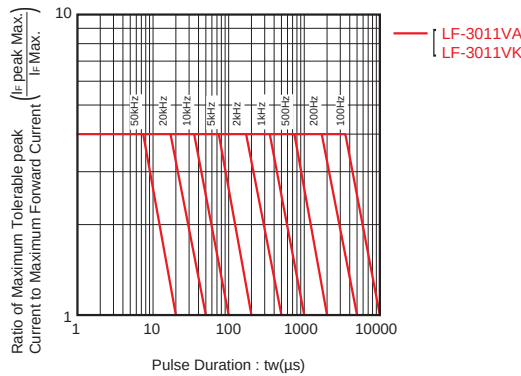


Fig.5 Ratio of Maximum Tolerable Peak Current - Pulse Duration (II)

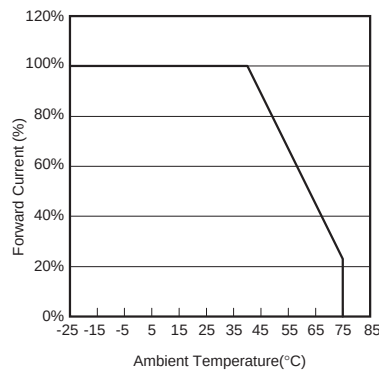


Fig.6 Derating

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