### Surface Mounting Chip LED

## TSS Type

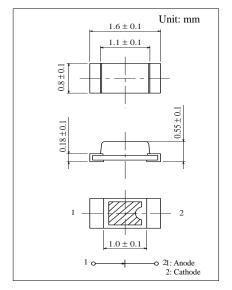
Conventional Part No.	Global Prat No.	Lighting Color
LNJ212R8ARA ······	·· LNJ212R8ARA	······ Red
LNJ312G8LRA ······	·· LNJ312G8LRA	····· Green
LNJ312G8TRA ······	·· LNJ312G8TRA	····· Green
LNJ412K8YRA······	LNJ412K8YRA	····· Amber
LNJ812R8DRA ······	·· LNJ812R8DRA	····· Orange
LNJ812K8SRA ······		

#### ■ Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

Lighting Color	P <sub>D</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	$V_R(V)$	T <sub>opr</sub> (°C)	T <sub>stg</sub> (°C)
Red	50	20	60	4	<b>−</b> 30 ~ <b>+</b> 85	-40 ~ +100
Green	30	10	50	4	<b>−</b> 30 ~ <b>+</b> 85	-40 ~ +100
Green	50	20	60	4	<b>−</b> 30 ~ <b>+</b> 85	-40 ~ +100
Amber	50	20	60	4	<b>−</b> 30 ~ <b>+</b> 85	-40 ~ +100
Orange	50	20	60	3	<b>−</b> 30 ~ <b>+</b> 85	-40 ~ +100
Soft Orange	50	20	60	3	<b>−</b> 30 ~ <b>+</b> 85	-40 ~ +100

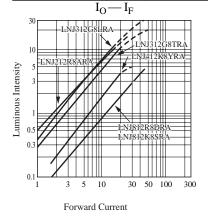
Pulse width 1 msec. The condition of  $I_{FP}$  is duty 10%, Pulse width 1 msec

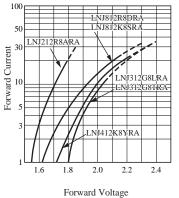
### ■Electro–Optical Characteristics (T<sub>a</sub> = 25°C)

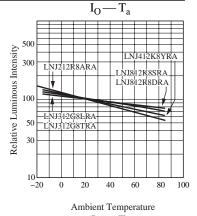


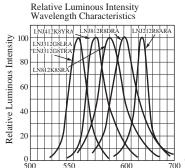
Conventional	Lighting	Lens Color	I <sub>o</sub>			V <sub>F</sub>		$\lambda_{P}$	Δλ		I <sub>R</sub>	
Part No.	Color		Тур	Min	I <sub>F</sub>	Тур	Max	Тур	Тур	I <sub>F</sub>	Max	$V_R$
LNJ212R8ARA	Red	Red Diffused	6.7	2.2	10	1.72	2.5	655	20	10	100	3
LNJ312G8LRA	Green	Green Diffused	3.0	1.5	5	1.9	2.4	565	30	5	10	4
LNJ312G8TRA	Green	Green Diffused	5.0	1.8	10	2.03	2.6	565	30	10	10	4
LNJ412K8YRA	Amber	Yellow Diffused	1.5	0.6	10	2.0	2.6	59.	30	10	10	4
LNJ812R8DRA	Orange	Orange Diffused	1.0	0.4	10	1.93	2.6	630	40	10	10	3
LNJ812K8SRA	Soft Orange	Yellow Diffused	1.0	0.4	10	1.93	2.6	610	40	10	10	3
Unit			mcd	mcd	mA	V	V	nm	nm	mA	μΑ	V

 $I_F - V_F$ 

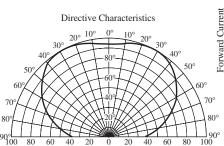


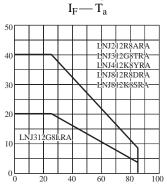






Wavelength





# Caution for Safety



# Gallium arsenide material (GaAs) is used in this product.

Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health

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