

# Surface Mounting Chip LED

## TSS Type

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

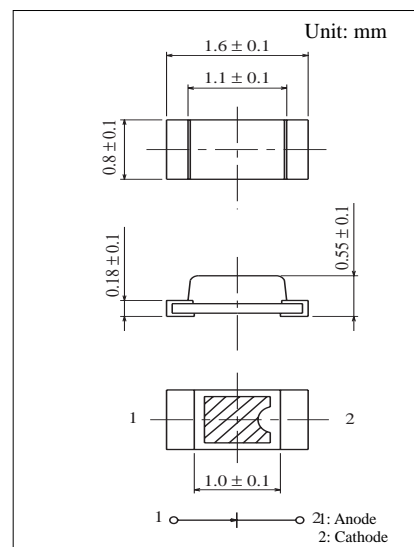
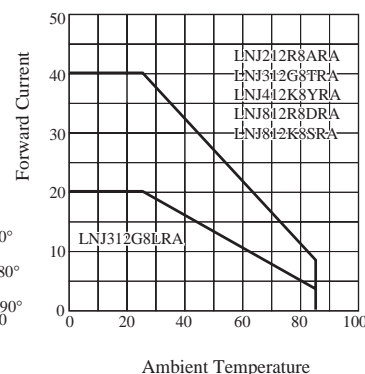
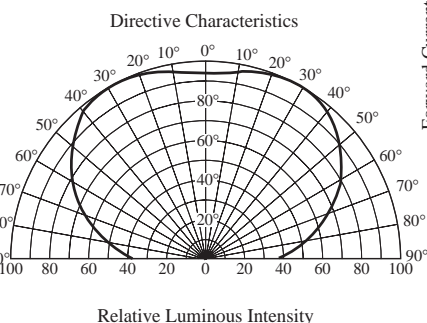
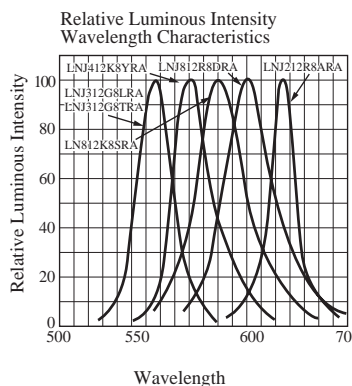
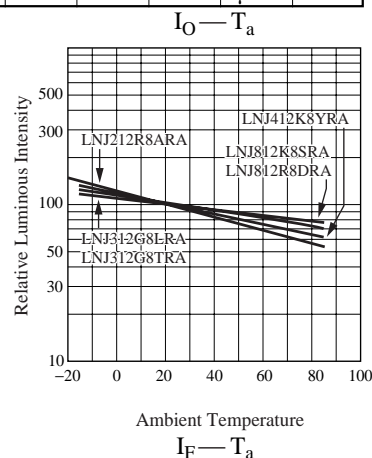
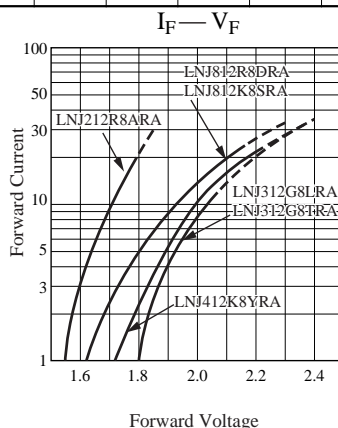
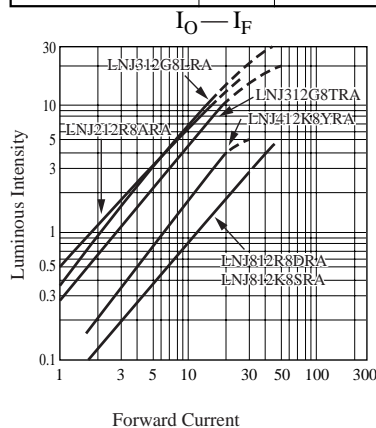
### ■Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Lighting Color	$P_D(\text{mW})$	$I_F(\text{mA})$	$I_{FP}(\text{mA})^*$	$V_R(\text{V})$	$T_{opr}(^\circ\text{C})$	$T_{stg}(^\circ\text{C})$
Red	50	20	60	4	$-30 \sim +85$	$-40 \sim +100$
Green	30	10	50	4	$-30 \sim +85$	$-40 \sim +100$
Green	50	20	60	4	$-30 \sim +85$	$-40 \sim +100$
Amber	50	20	60	4	$-30 \sim +85$	$-40 \sim +100$
Orange	50	20	60	3	$-30 \sim +85$	$-40 \sim +100$
Soft Orange	50	20	60	3	$-30 \sim +85$	$-40 \sim +100$

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

### ■Electro-Optical Characteristics ( $T_a = 25^\circ\text{C}$ )

Conventional Part No.	Lighting Color	Lens Color	$I_O$		$I_F$	$V_F$		$\lambda_p$	$\Delta\lambda$	$I_F$	$I_R$	
			Typ	Min		Typ	Max				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	$\mu\text{A}$	V



# Caution for Safety

 **DANGER**

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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