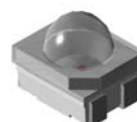


PLCC Dome Package SMD LED

VR 7278

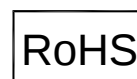
Description

The constructive of this series of LED are different from the PCB type SMD LED. The lead-frame is of metal, reflector is made of thermoplastic and construct into this unique type of SMD LED. The wavelengths and luminous Intensities of this series are grouped under 30mA for uniformity. The dice used in this series is InGaN technology are low power consumption and obtaining high luminous intensity.



Applications

- Dashboards and switch
- Backlight keypads
- Industrial control systems signal indicator
- Automotive features
- Industrial panel



Electronic Optical Characteristics (at 30mA):

Part Number	Emitted Color	λ (nm)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		λ_d	λ_p		Min.	Max.		Min.	Max.
VR 7278	Blue 	470	468	Clear	900	2250	60	2.75	3.95

Absolute Maximum Ratings (at Ta=25°C)

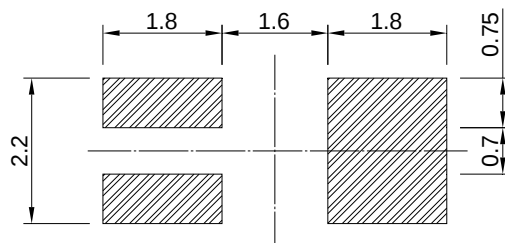
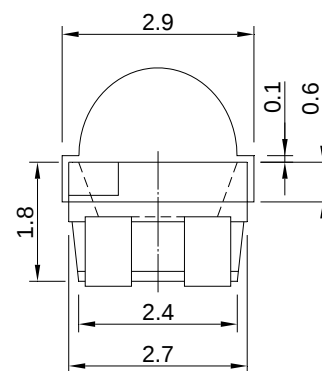
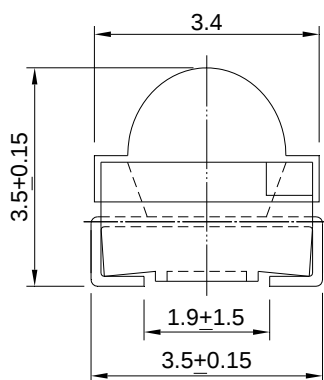
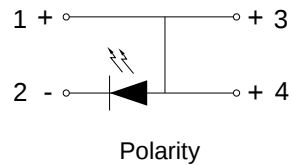
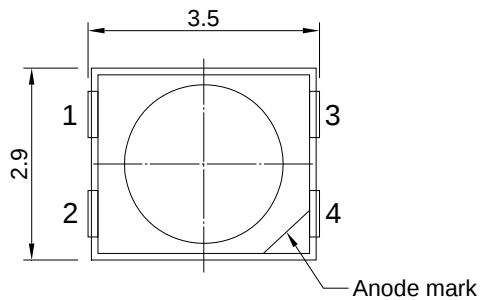
P _D (mW)	I _{FP} (mA)	I _F (mA)	I _{on Sol.} (°C)	I _R (uA)@V _R =5V	T _{opr} (°C)	T _{stg} (°C)
120	100*	50	350±5 for 3 sec	50	-40~+85	-40+100

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life-span and may cause LED to fail.

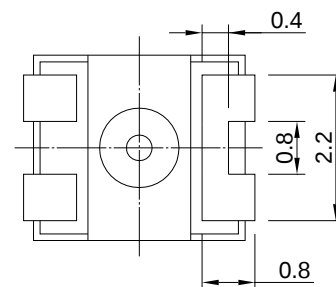
* I_{FP}: Peak Forward Current under 1/10 duty, 1KHz condition

Package Dimension:

unit:mm



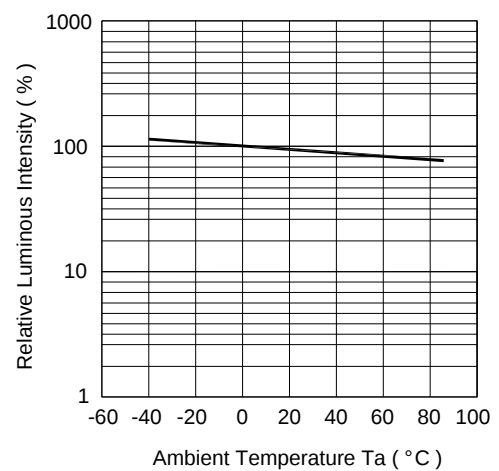
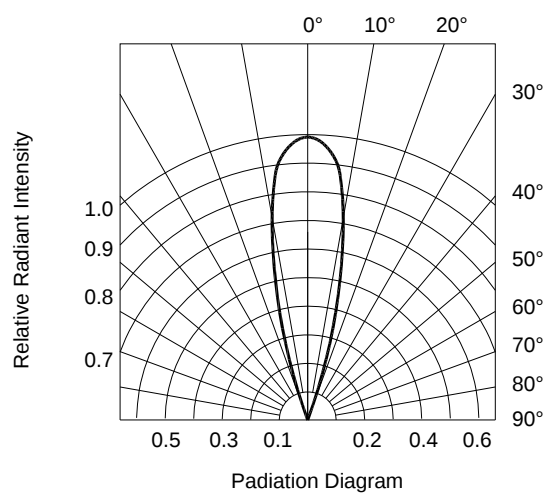
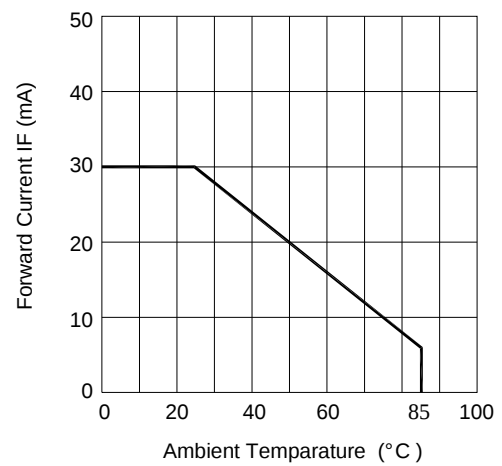
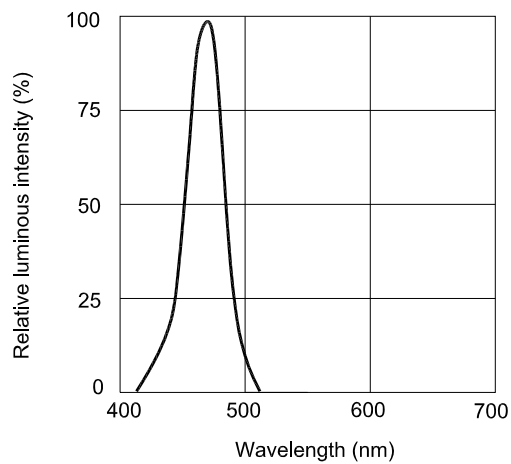
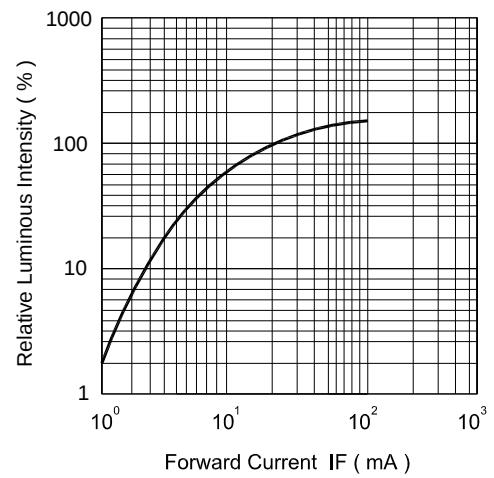
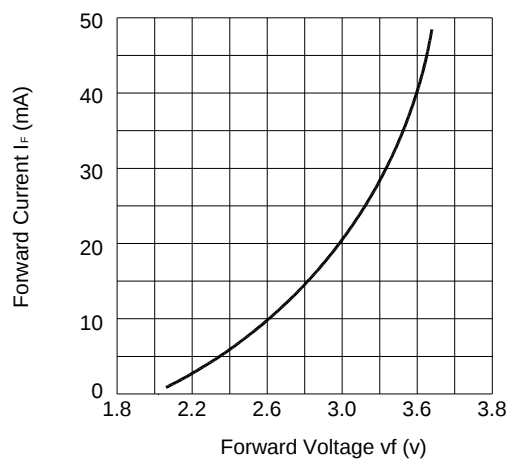
Recommended Soldering Pad



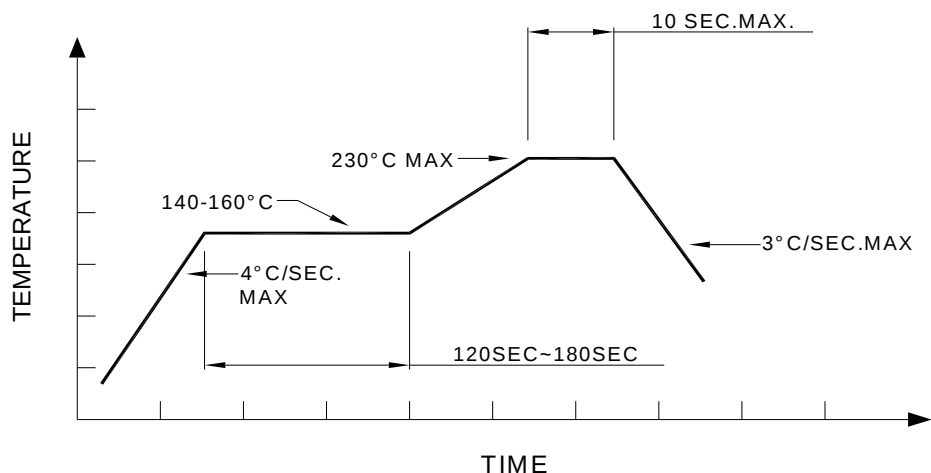
Notes:

1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

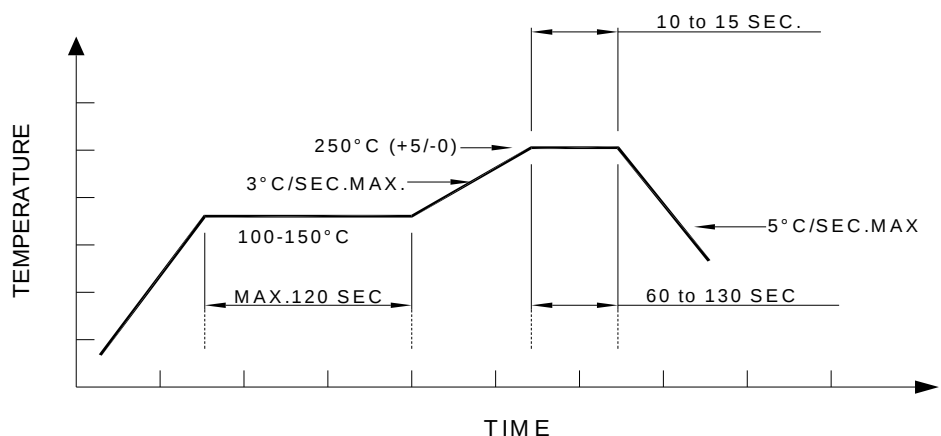
Optical Characteristics Curves



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Specification for bin grade @30mA

Iv(mcd)			VF(Volt)			λ (nm)		
Code	Min.	Max.	Code	Min.	Max.	Code	Min.	Max.
V2	900	1120	5	2.75	3.05	A9	464.5	467.5
W1	1120	1400	6	3.05	3.35	A10	467.5	470.5
W2	1400	1800	7	3.35	3.65	A11	470.5	473.5
--	--	--	--	--	--	A12	473.5	476.5