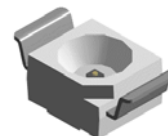


PLCC-2 Reverse Package SMD LED

VR B7C8.38

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 20mA for uniformity.



Applications

- Industrial control systems signal indicator
- Automotive features
- Flat backlight for LCD switch and symbol
- Light pipe application
- Status indication



Electronic Optical Characteristics (at 20mA):

Part Number	Emitted Color	λ (nm)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		λ_d	λ_p		Min.	Typ.		Typ.	Max.
VR B7C8.38	Red 	624	632	Clear	180	320	120	2.0	2.4

Absolute Maximum Ratings (at Ta=25°C)

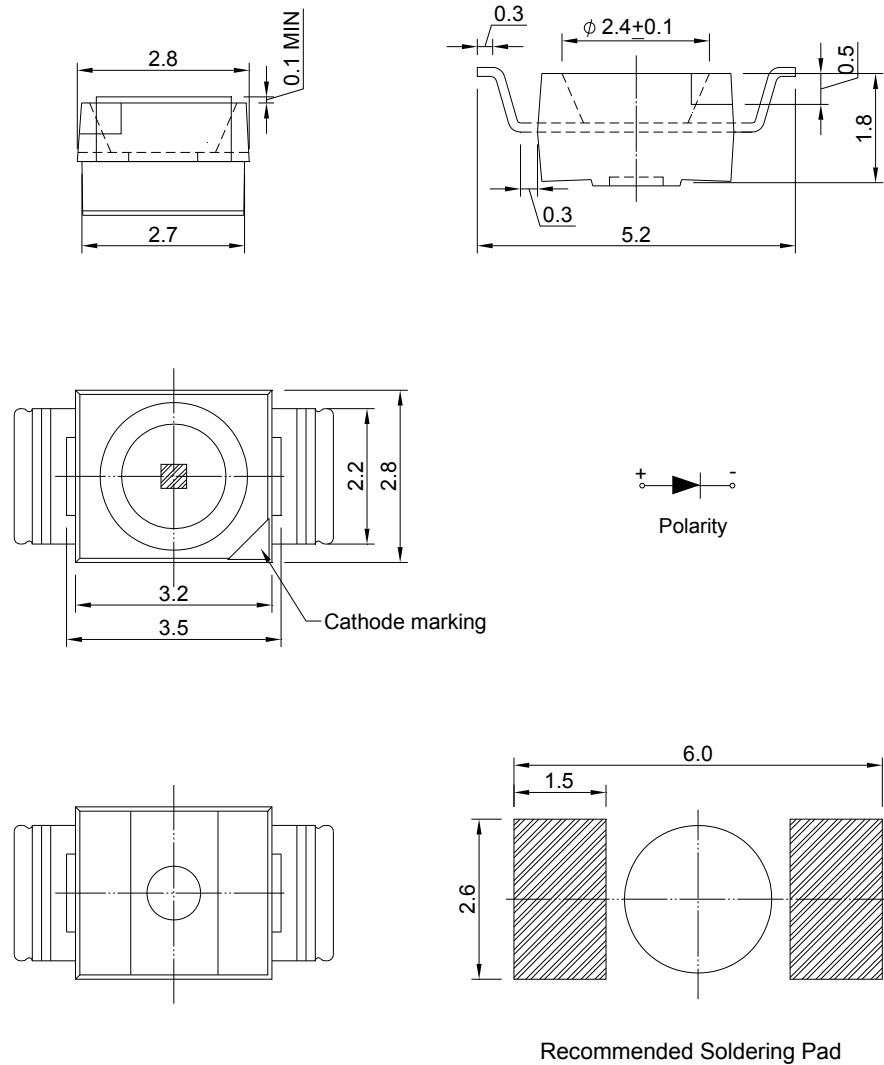
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder (°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
120	100*	50	350 ± 5 for 3 sec.	10	-40~+85	-40~+100

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specify 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:

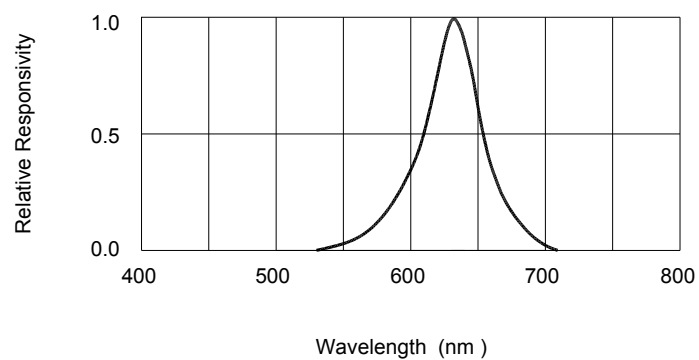
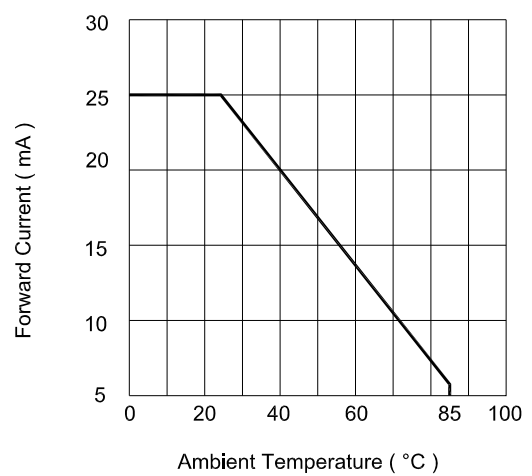
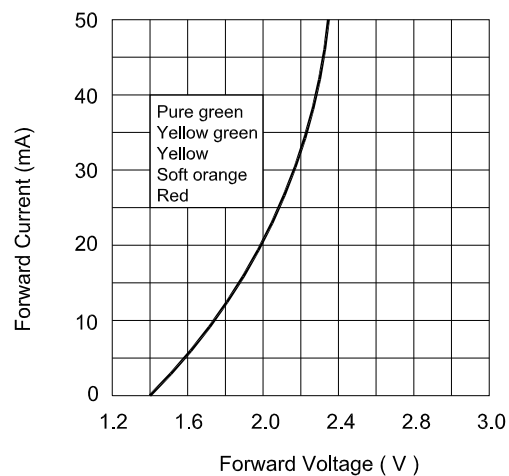
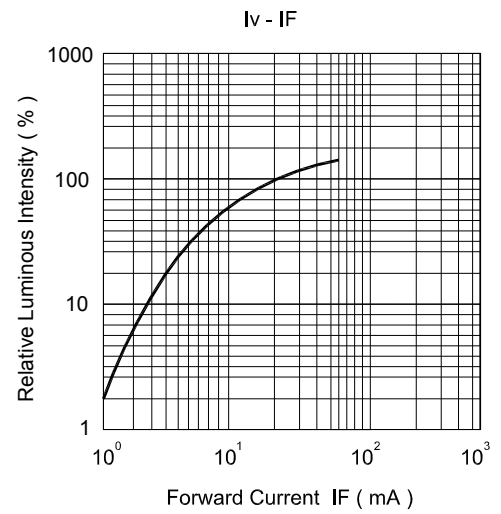
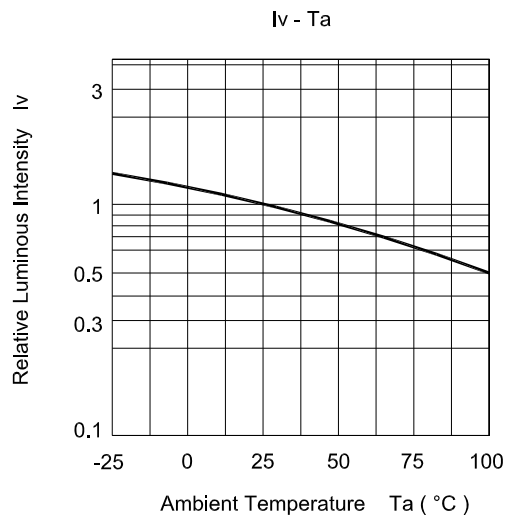
unit : mm



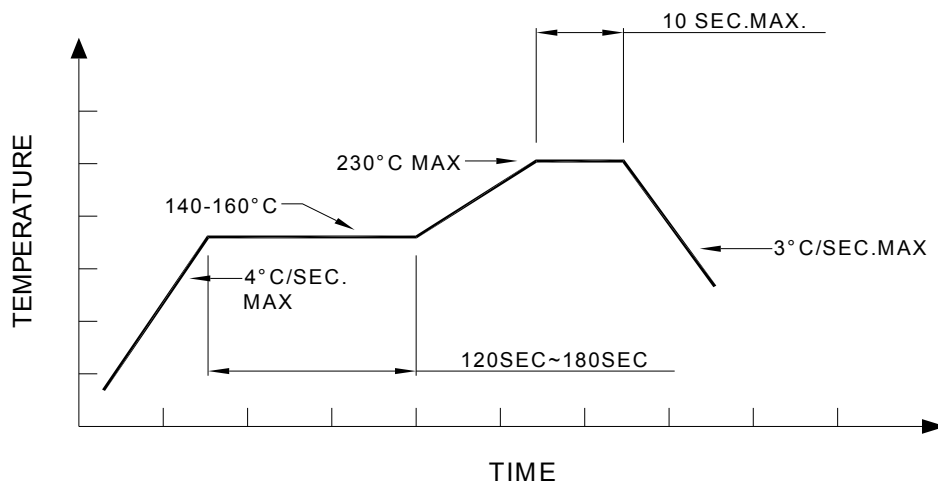
Notes:

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

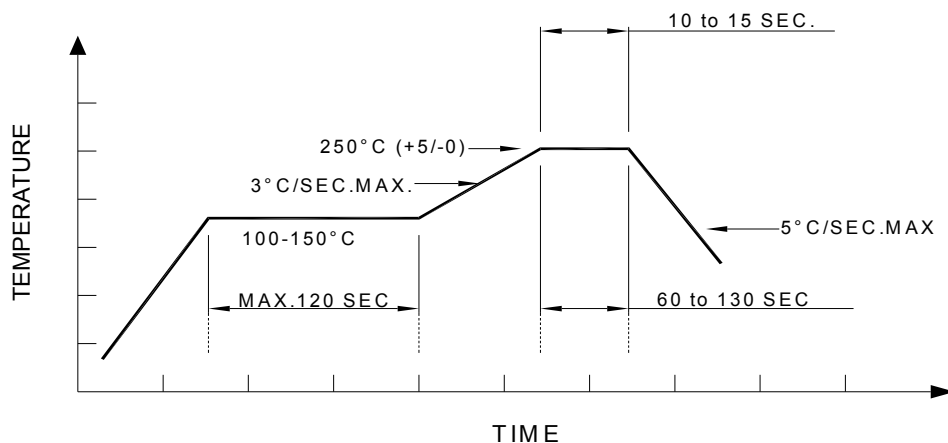
Optical Characteristics Curves



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Specification for bin grade @ 20 mA

Iv(mcd)			VF(Volt)			$\lambda \text{ d(nm)}$		
Code	Min.	Max.	Code	Min.	Max.	Code	Min.	Max.
S1	180	225	0	1.75	1.95	E4	618	622
S2	225	285	1	1.95	2.15	E5	622	626
T1	285	360	2	2.15	2.30	E6	626	630
T2	360	450	--	--	--	E7	630	634