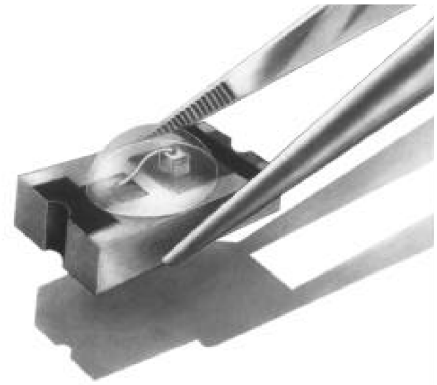
ELCOS AG
Electronic Components Support

Amber 180° Angle Ceramic Chip

CR 12 A

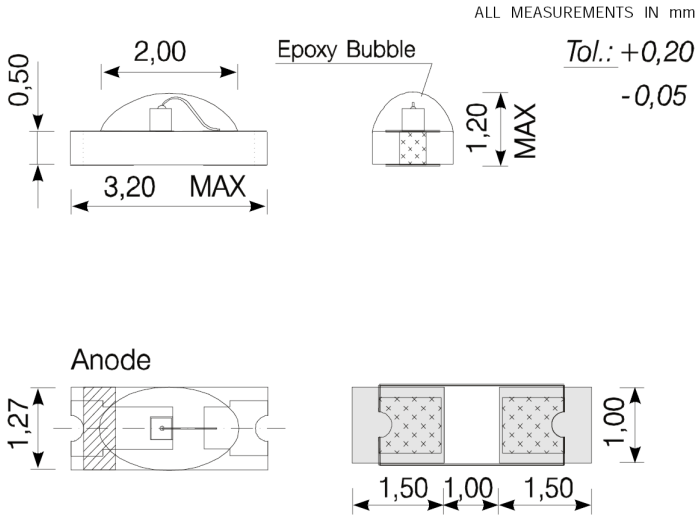


Features

Solid State Ceramic Chip
Surface Mounting Device
High Power Thermal Absorbtion
Superior Light Uniformity Over 180°
End to End Side to Side Stackable Down to a Pitch of 1,33mm
Solder Pads Conform to Mil−Std 883B
Amber Diffused Lens

Applications

Ideal For Back Light Applications
Custom Configurations
Application for Night Light Conditions



Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	75	mA
Reverse Voltage	V_R	100	V
Power Dissipation	P_D	130.00	mW
Operating Temperature	T_{opr}	−25 ~ +80	°C
Storage Temperature	T_{stg}	−25 ~ +120	°C
Soldering Temperature	T_{sol}	250	°C
Soldering Time	−	for 10 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	−	2.20	2.40	V
Reverse Current	I_R	V_R=5V	−	−	100	µA
Luminous Intensity	I_V	I_F=20mA	1.80	5.30	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	180°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	612	−	nm
Dominant Wavelength	λd	I_F=20mA	−	605	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	15	−	nm

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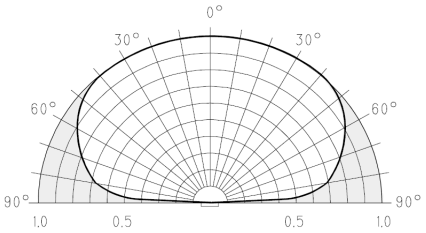
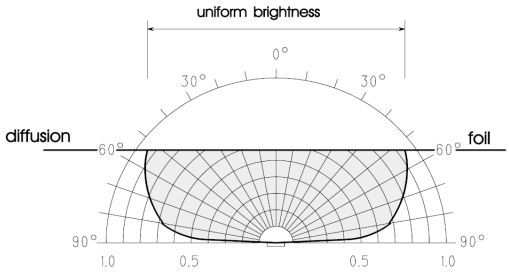
CR 12 A Graphs

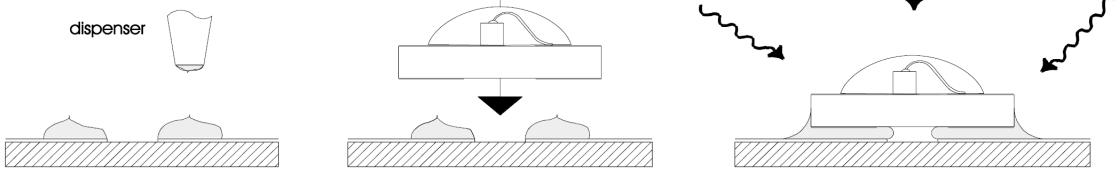


180° viewing angle (50% rel.)

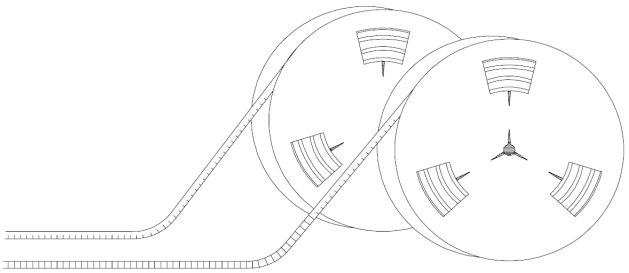


for backlight applications

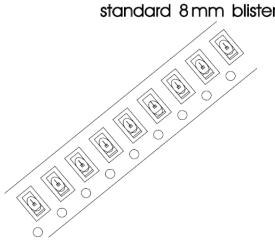
SUGGESTED MOUNTING METHOD



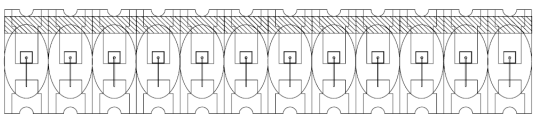
1. Apply conductive epoxy or soldercream onto the tracer
2. Place the CERLED in position
3. Cure epoxy soldercream (temperature and time according to vendors instrutions)



Special Packing:
standard 8 mm blister tape



ARRAYS



code to order strips:
CR 10 XX -__10
No of LEDs

Available in strips up to 12 CERLEDs with a max. pitch tolerance in spacing and linearity of ± 0,01 mm between chip centers.

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