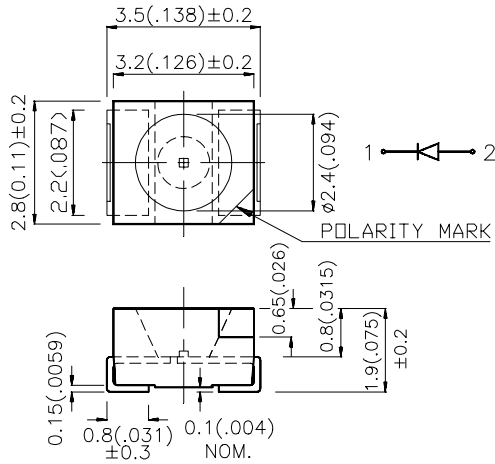


Package Dimensions

3.5x2.8mm SURFACE MOUNT LED LAMPS

EA3528SRC SUPER BRIGHT RED
EA3528SRT SUPER BRIGHT RED



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Features

1. SINGLE COLOR.
2. SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS
3. AVAILABLE ON TAPE AND REEL.
4. IDEAL FOR BACKLIGHT

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Selection Guide

Part No.	Emitting Color +Material	$\lambda D(nm)$	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
				Min.	Typ.	
EA3528SRC	GaAlAS	640	WATER CLEAR	50	150	2 θ 1/2
EA3528SRT	GaAlAS	640	RED TRANSPARENT	50	150	120°

Note:

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

DATA NO :EA0138

REV NO :V1

DATE :AUG/30/2001

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

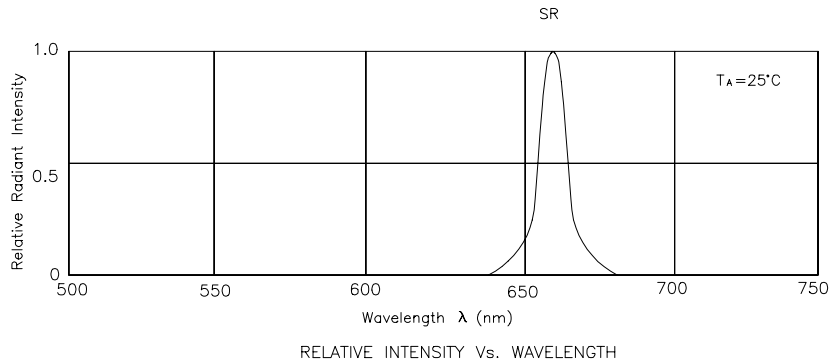
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright RED	660		nm	$I_F=20\text{mA}$
λ_D	Dominate Wavelength	Super Bright RED	640		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Super Bright RED	20		nm	$I_F=20\text{mA}$
C	Capacitance	Super Bright RED	45		pF	$V_F=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	Super Bright RED	1.85	2.5	V	$I_F=20\text{mA}$
I_R	Reverse Current	Super Bright RED		10	μA	$V_R = 5\text{V}$

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

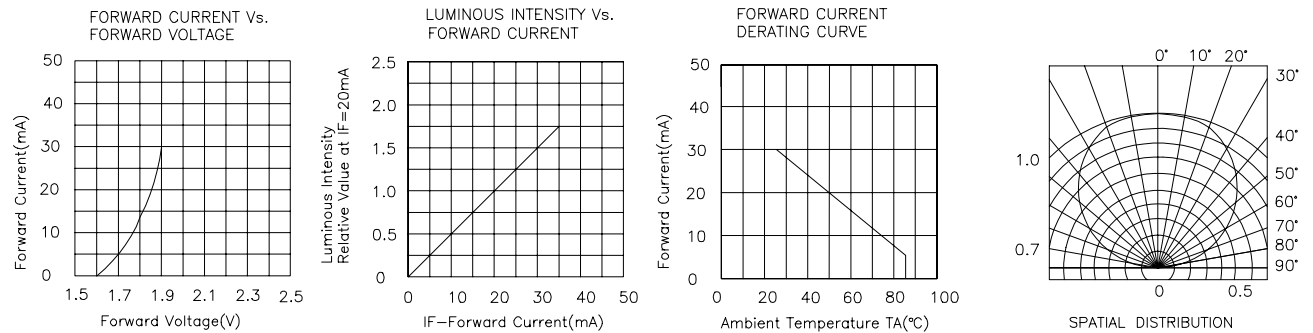
Parameter	Super Bright Red	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

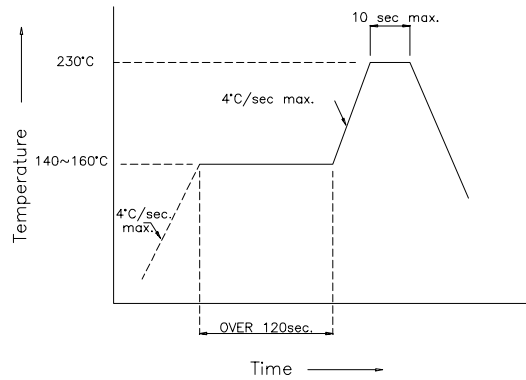


Super Bright Red EA3528SRC,EA3528SRT

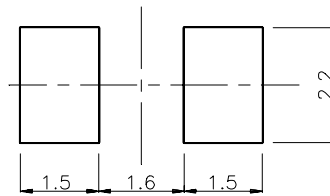


EA3528SRx SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



EA3528SRx Recommended Soldering Pattern (Units : mm)



EA3528SRx Tape Specifications (Units : mm)

PACKAGE : 1500PCS / REEL

