HVR-3433EES

3433 PLCC6 Products Series

High luminous efficiency, consistency, stability and reliability, it is mainly used in automobile applications.

- PPA
- 50% I_V 120
- 623nm
- AEC-Q102 & IEC 60810

Features

- Package

Ordering Information

Type	Luminous Intensity I_V @ I_f=140mA	Ordering Code
HVR-3433EES- XXXX - XX - XXXX I I I Brightness Color Forward Voltage	3.55 -9.00 cd	XXXXXX

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HVR-3433EES-CBEA-XX-XXXX CB DA DB EA

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HVR-3433EES-XXXX-XX-3A4B 3A 3B 4A 4B

Note

■ Brightness Grouping

Only one brightness group will be packed in each reel. Please refer to page #4 for details.

E.g.: HVR-3433EES-CBEA-XX-XXXX, means only one bin of CB, DA, DB or FA is in each reel.

■ Color Groups

Please refer to page #4 for details.

■ Forward Voltage Groups

Only one forward voltage group will be packed in each ree 458.88 304.82 Tm(#) TJE Tm /14 0 T10ET .5

Information on Label

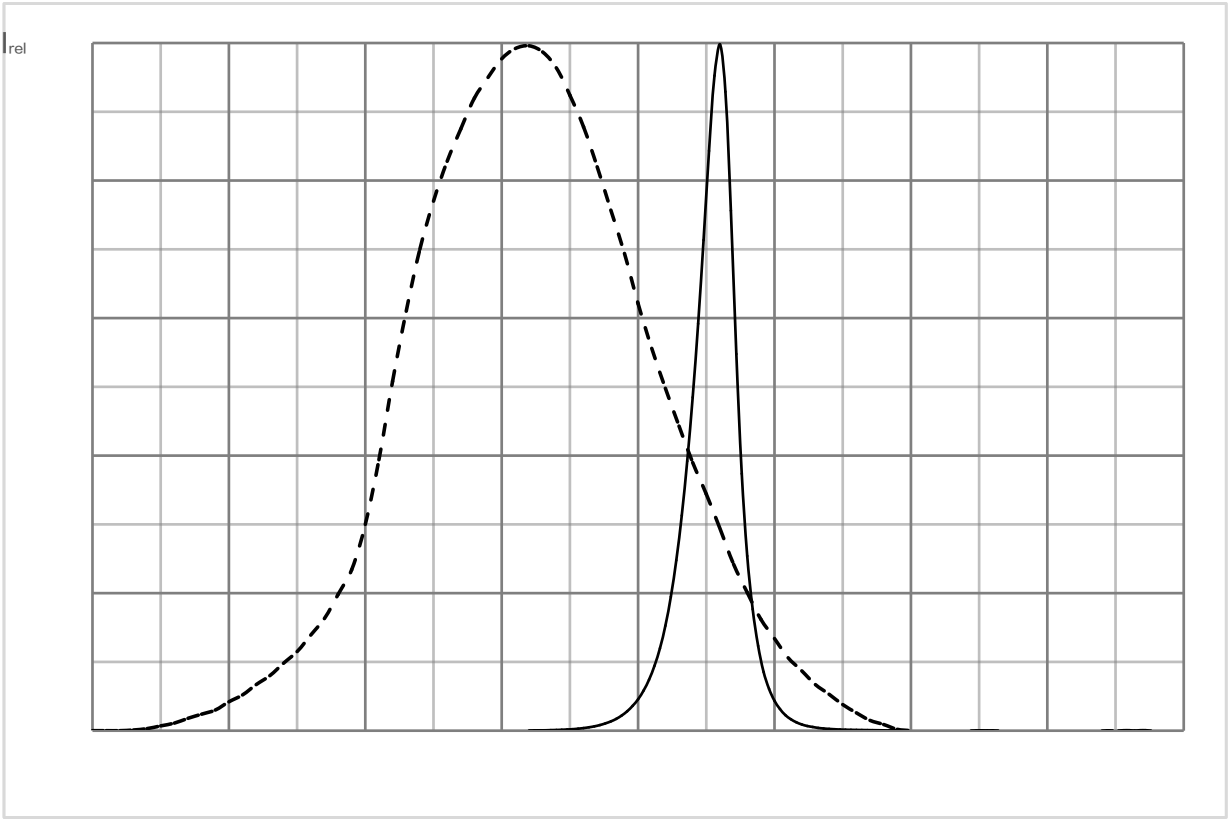
E.g. DA-1-3A

Brightness	Color	Forward Voltage
DA	1	3A

- V( ) =

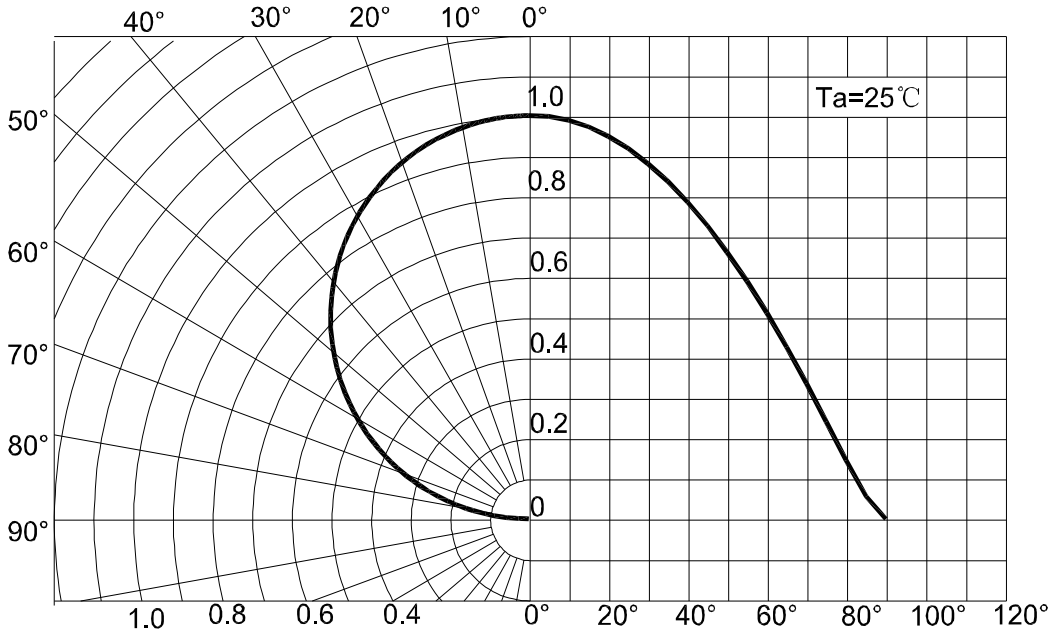
Relative Spectral Emission - V( ) = Standard Eye Response Curve

$I_{rel} = f(\ )$; T_s $_f$ = 140 mA



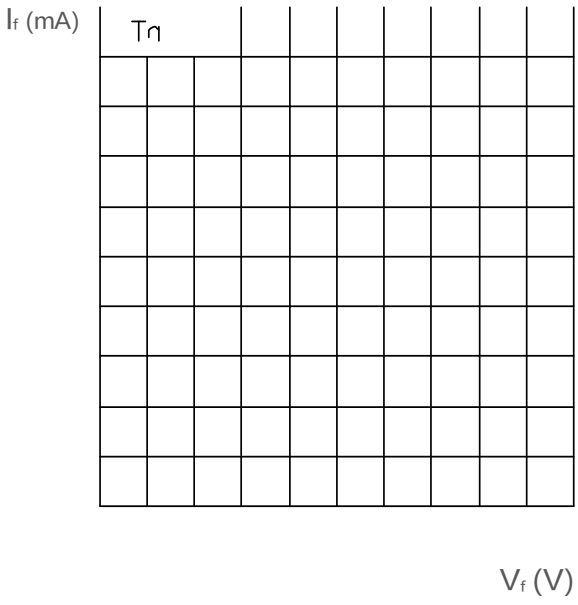
Radiation Characteristics

$I_{rel} = f$ ($T_s = 25$



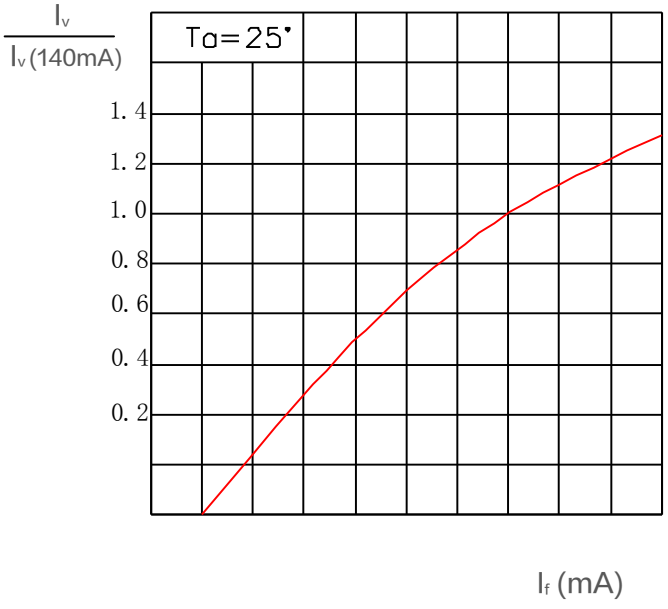
Forward Current

$I_f = f(V_f)$; T_a



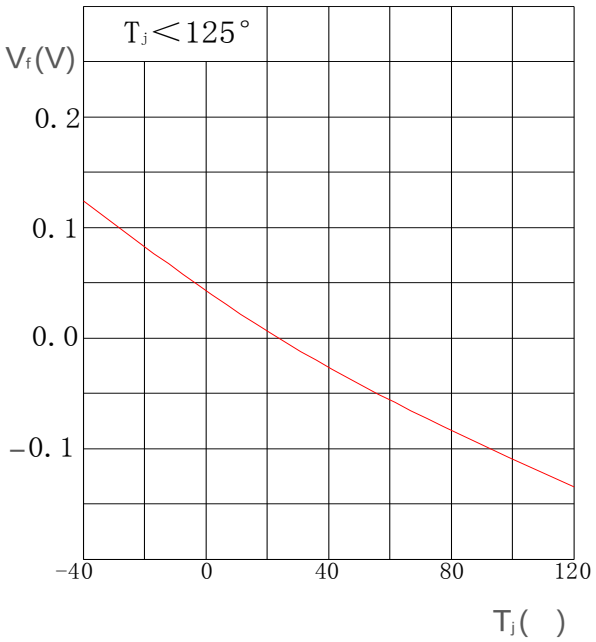
Relative Luminous Intensity

$I_v / I_v(140\ mA) = f(I_f)$; T_a



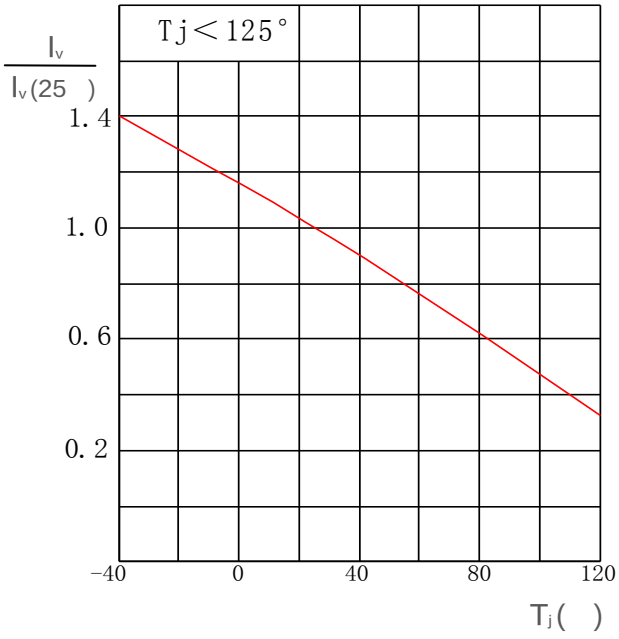
Relative Forward Voltage

$V_f = V_f - V_f$ $_j$); I_f = 140 mA



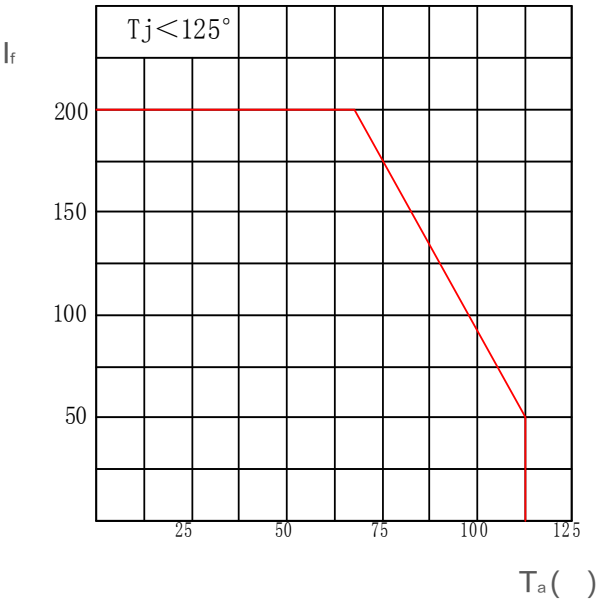
Relative Luminous Intensity

I_v / I_v $_j$); I_f = 140 mA



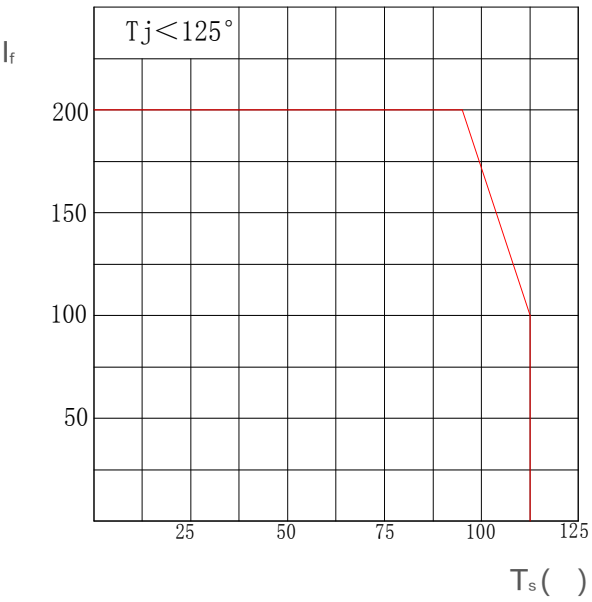
Ambient Temperature vs. Forward Current

$I_f = f(T_a)$

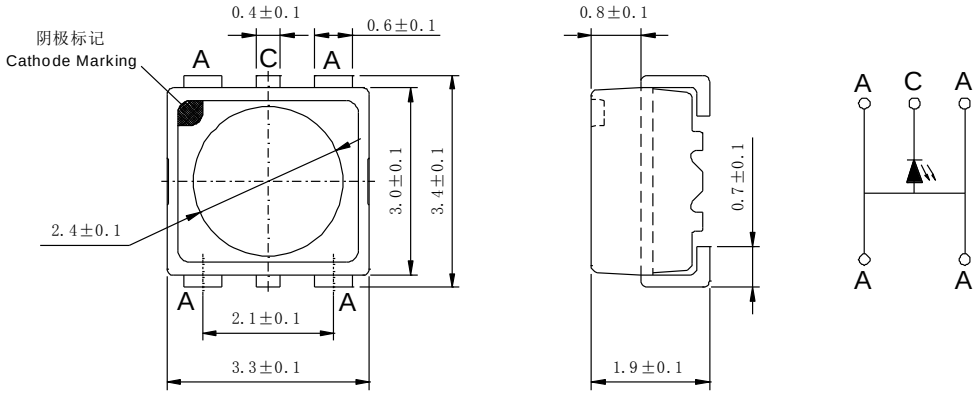


Solder Point Temperature vs. Forward Current

$I_f = f(T_s)$



Package Outline



- 40mg
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- Class 3B

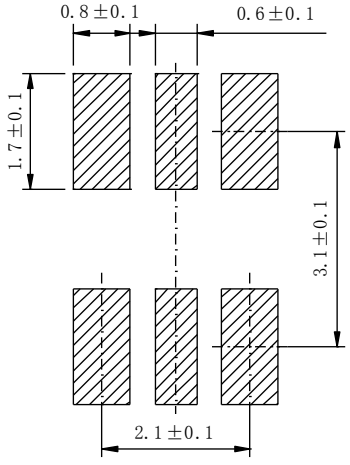
: 1) H_2S , 336 IEC 60068-2-43)
2)
IEC 60068-2-60 4: 10ppb H_2S, 200ppb SO_2, 200ppb NO_2, 10ppb Cl_2)

NOTE

- Approximate Weight: 40mg
- Mark: Cathode
- Corrosion test: Class 3B

Test conditions: 1) H2S test , 15ppm, 336hours
(Standards IEC 60068-2-43)
2) Flowing
(Standards IEC 60068-2-60 test method 4: 10ppb H_2S, 200ppb SO_2, 200ppb NO_2, 10ppb Cl_2)

Recommended Solder Pad



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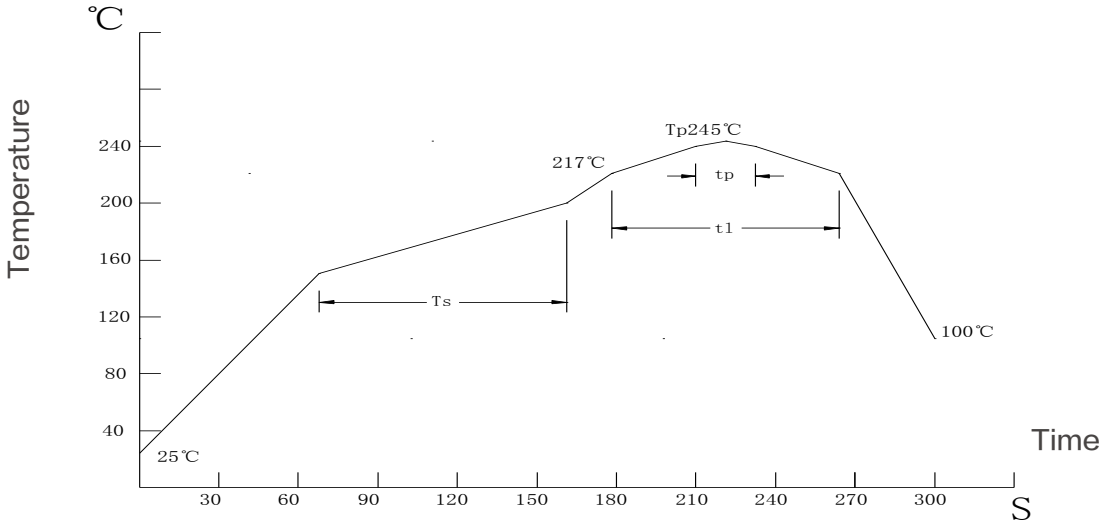
NOTE

- Package not suitable for ultrasonic cleaning

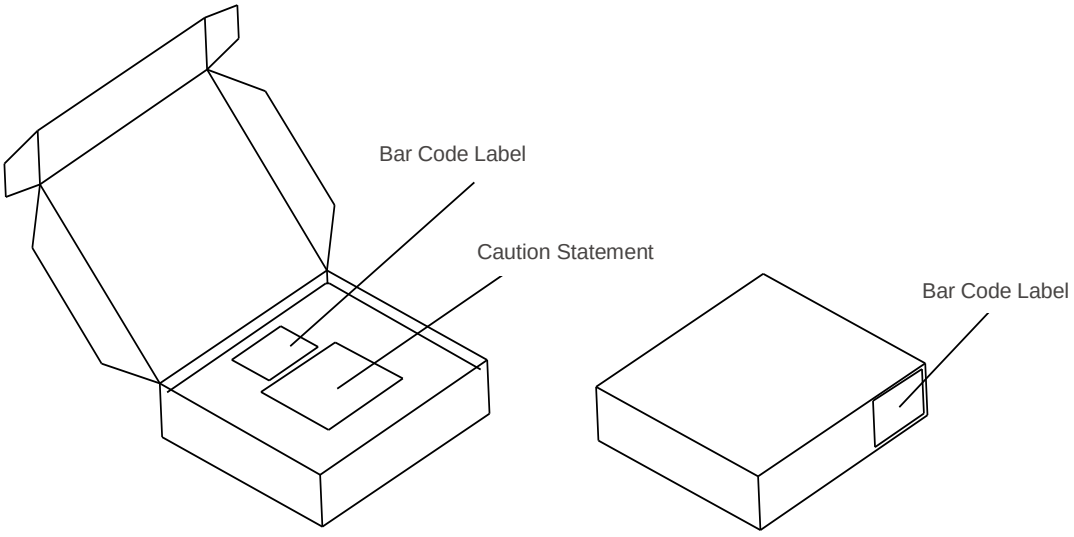
Reflow Soldering Profile



Profile Feature	Symbol	Pb-Free (SnAgCu) Assembly			Unit
		min.	rec.	max.	
Ramp-up Rate to Preheat 25 -150	-	-	2	3	/s
Time T_{smin} to T_{smax}	T_s	60	100	120	s
Ramp-up Rate to Peak T_{smax} to T_p	-	-	2	3	s
Liquidus Temperature	T_l		217		
Time above Liquidus Temperature	t_l	-	80	100	s
Peak Temperature	T_p	-	245	260	
5 Time within 5 of the Specified Peak Temperature	t_p	10	20	30	s
Ramp-down Rate T_p to 100	-	-	3	6	s
Time 25 to T_p	-	-	-	480	s

Barcode-Product-Label (BPL)

Transportation Packing and Materials



Dimensions of Transportation Box (mm)

Width	Length	Height
256 5	223 5	62 5
256 5	223 5	124 5

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8ms 0.05V 0.1V
GUM K=3
25ms 0.5nm 1nm
GUM K=3
25ms 8% 11%
GUM K=3

Glossary

Typical Values: Actual values of each product may differ from these statistical values .
Tolerance of Measure: Unless otherwise noted in drawing, tolerances are specified with +/ −0.1mm.
Forward Voltage: The forward voltage is measured during a current pulse of typically 8 ms,

GUM with a coverage factor of k = 3).
Wavelength: The wavelength is measured at a current pulse of typically 25 ms,

GUM with a coverage factor of k = 3).
Brightness: Brightness values are measured during a current pulse of typically 25 ms,

with a coverage factor of k = 3).

Special Statement: The final interpretation of this specification shall be vested in Honglitronic, in the case of ambiguity, the Chinese version shall prevail.