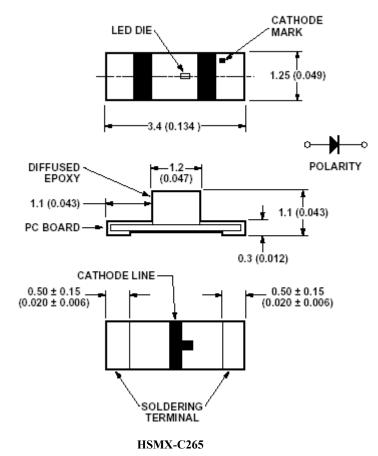


Package Dimensions



Notes:

1. Dimensions in mm.

2. Tolerance ± 0.1 mm unless otherwise noted.

Device Selection Guide

Part Number	Color	Parts Per Reel
HSMA-C265	Amber	3000
HSMC-C265	Red	3000
HSML-C265	Orange	3000
HSMT-C265	Deep Red	3000

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Innovating the HP Way

Absolute Maximum Ratings at ${\tt T_A}$ = 25°C

Parameter	HSMA/C/L/T-C265	Units
DC Forward Current	25	mA
Power Dissipation	65	mW
Reverse Voltage ($I_R = 10\mu A$)	5	V
LED Junction Temperature	95	°C
Operating Temperature Range	-30 to +85	°C
Storage Temperature Range	-40 to +85	°C
Soldering Temperature	See soldering profile(F	igure 1)

Reverse Voltage Testing (Tolerance: +/- 30%)

Electrical Characteristics at ${\tt T_A}$ = 25°C

	Forward Voltage		Reverse
	$V_{\rm F}$ (Volts)		Breakdown
Part Number	0 I _F =	20 mA	V_R (Volts)
	Тур.	Max.	@ I _R = 100 μA
			Min.
HSMA/C/L/T-C265	1.9	2.6	5

Optical Characteristics at ${\tt T_A}$ = 25°C

Part Number	Luminous I _v (: @ 20	mcd)	$\begin{array}{l} {\tt Peak} \\ {\tt Wavelength} \ \lambda_{{\tt peak}} \\ {\tt (nm)} \ {\tt Typ} . \end{array}$	Dominant Wavelength λ_d (nm) Typ ^[2] .
	Min.	Тур.		
HSMA-C265	28.5	75	595	592
HSMC-C265	28.5	75	637	626
HSML-C265	28.5	75	609	605
HSMT-C265	11.2	25	660	639

Notes:

1. The luminous intensity I_{ν} is measured at the peak of the spatial radiation pattern which may not be aligned with the mechanical axis of the lamp package.

2. The dominant wavelength, $\lambda_d,$ is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.

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Light Intensity (Iv) Bin Limit^[1]

Intensity (mcd Min.	
	Max.
0.11	0.18
0.18	0.29
0.29	0.45
0.45	0.72
0.72	1.10
1.10	1.80
1.80	2.80
2.80	4.50
4.50	7.20
7.20	11.20
11.20	18.00
18.00	28.50
28.50	45.00
45.00	71.50
71.50	112.50
112.50	180.00
180.00	285.00
285.00	450.00
450.00	715.00
715.00	1125.00
1125.00	1800.00
1800.00	2850.00
2850.00	4500.00
	0.18 0.29 0.45 0.72 1.10 1.80 2.80 4.50 7.20 11.20 18.00 28.50 45.00 71.50 112.50 180.00 285.00 450.00 715.00 1125.00 1800.00

Tolerance: ±15%

Note:

 Bin categories are established for classification of products. Products may not be available in all categories. Please contact your Agilent representative for information on currently available bins.

Bin ID	Dominant Wav	elength (nm)
BIII ID	Min.	Max.
A	582.0	584.5
В	584.5	587.0
С	587.0	589.5
D	589.5	592.0
E	592.0	594.5
F	594.5	597.0

Amber Color Bin Limits

Tolerance : + / - 1 nm

Red	Color	Bin	Limits

Bin ID	Dominant Wavelength (nm)	
BIII ID	Min.	Max.
-	615.0	630.0
Tolerance :	+ / - 1 nm	

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Bin ID	Dominant Wav	velength (nm)
	Min.	Max.
A	597.0	600.0
В	600.0	603.0
С	603.0	606.0
D	606.0	609.0
E	609.0	612.0
F	612.0	615.0

Orange Color Bin Limits

Tolerance : + / - 1 nm

Deep Red Color Bin Limits

Bin ID	Dominant Wavelength (nm)	
BIII ID	Min.	Max.
_	635.0	646.0

Tolerance : + / - 1 nm

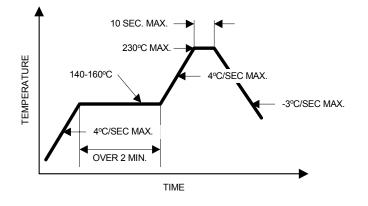


Figure 1: Recommended Reflow Soldering Profile

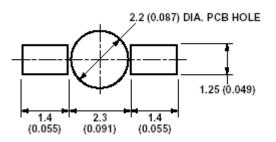


Figure 2: Recommended Soldering Pattern

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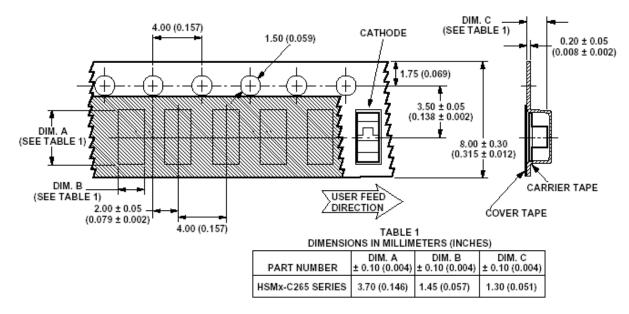


Figure 3: Tape Dimensions

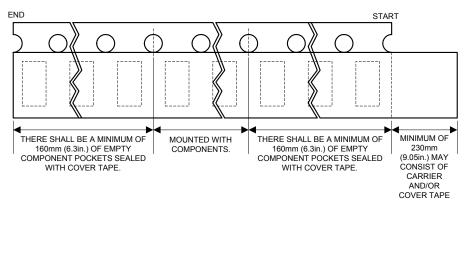


Figure 4: Tape Leader and Trailer Dimensions.

Notes:

1. All dimensions in millimeters (inches).

2. Tolerance is \pm 0.1 mm (\pm 0.004 in.) unless otherwise specified.

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Convective IR Reflow Soldering

For more information on IR reflow soldering, refer to Application Note 1060, Surface Mounting SMT LED Indicator Components.

Storage Condition : 5 to 30 $^{\circ}$ C @ 60%RH max.

Baking is required under the condition :

a) the blue silica gel indicator becoming white / transparent color

b) the pack has been open for more than 1 week Baking recommended condition : 60 \pm 5 $^{\circ}\mathrm{C}$ for 20 hrs

