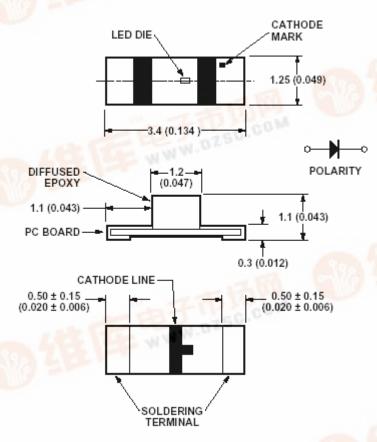


Package Dimensions



HSMX-C265

Notes:

- 1. Dimensions in mm.
- 2. Tolerance \pm 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

Absolute Maximum Ratings at $T_A = 25$ °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(Figure 1)	

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

Electrical Characteristics at $T_A = 25$ °C

	Forward Voltage		Reverse
	$V_{\scriptscriptstyle m F}$ (Volts)		Breakdown
Part Number	$0 I_F = 20 mA$		V_R (Volts)
	Тур.	Max.	$0 I_R = 100 \mu A$
			Min.
HSMA/C/L/T-C265	1.9	2.6	5

Optical Characteristics at $T_{\rm A}$ = 25°C

Part Number	Luminous Intensity I, (mcd) @ 20 mA ^[1]		Peak Wavelength $\lambda_{ ext{peak}}$ (nm) Typ.	Dominant Wavelength $\lambda_{ m d}$ (nm) Typ $^{[2]}$.
	Min.	Typ.		
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 \mathbf{I}_{V} 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, λ_d , is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.

Light Intensity (Iv) Bin Limit^[1]

	Intensity (mcd)		
Bin ID	Min.	Max.	
Α	0.11	0.18	
В	0.18	0.29	
C	0.29	0.45	
D	0.45	0.72	
E	0.72	1.10	
F	1.10	1.80	
G	1.80	2.80	
Н	2.80	4.50	
J	4.50	7.20	
K	7.20	11.20	
L	11.20	18.00	
М	18.00	28.50	
N	28.50	45.00	
Р	45.00	71.50	
Q	71.50	112.50	
R	112.50	180.00	
S	180.00	285.00	
Т	285.00	450.00	
U	450.00	715.00	
V	715.00	1125.00	
W	1125.00	1800.00	
X	1800.00	2850.00	
Y	2850.00	4500.00	

Tolerance: ±15%

Note:

1. 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.

Amber Color Bin Limits

Bin ID	Dominant Wav	relength (nm)
BIN 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

Tolerance : + / - 1 nm

Red Color Bin Limits

Bin ID	Dominant Wav	relength (nm)
BIII ID	Min. Max.	
-	615.0	630.0

Tolerance : + / - 1 nm

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Orange Color Bin Limits

Bin ID	Dominant Wavelength (nm)		
BIN ID	Min.	Max.	
А	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	

Tolerance : + / - 1 nm

Deep Red Color Bin Limits

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

Tolerance: + / - 1 nm

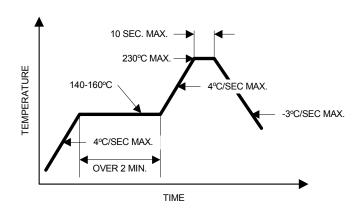


Figure 1: Recommended Reflow Soldering Profile

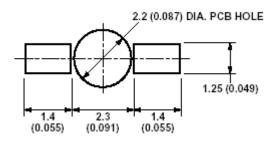


Figure 2: Recommended Soldering Pattern

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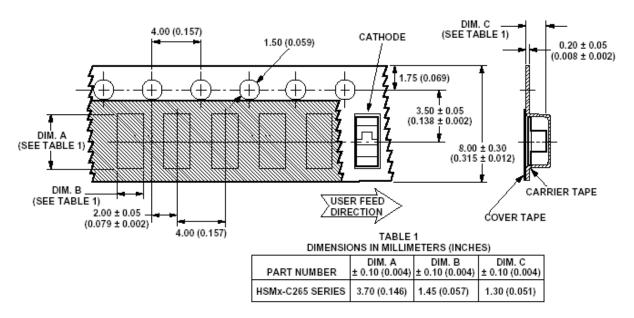


Figure 3: Tape Dimensions

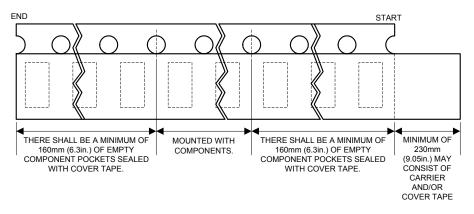


Figure 4: Tape Leader and Trailer Dimensions.

Notes:

- 1. All dimensions in millimeters (inches).
- 2. Tolerance is \pm 0.1 mm (\pm 0.004 in.) unless otherwise specified.

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 ± 5 °C for 20 hrs

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Data subject to change.

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