

Application Brief 5337

Introduction

There are two Avago LED part numbering system, namely:

- 1. Existing LED Part Numbering System (shown in section 1)
- 2. New LED Part Numbering System (shown in Section 2)

The existing Avago Part Numbering System differs from product family to product family and will continue to be applicable for existing products. The New LED Part Numbering System incorporates Avago Brand Identification with more standardized features and will only be applicable for new Avago LEDs.

This document is intended as a general guide to the part numbering systems employed by each part family. This document is not intended as a selection guide and does not contain parametric values for specific devices. For further information on specifics products, please refer to the respective Product Technical Data Sheet.

Some part number may not appear to fall in the categories contained herein -- this does not indicate obsolescence but rather the specific part number may not exactly match the generalizations in this document. For those part numbers not exactly matching the descript ion in this document, please download the appropriate Product Technical Data Sheet from Avago Website (www.avagotech.com) or contact the nearest Avago Representative.

Section 1: Index of Part Numbering System

For convenience, two indexes are provided in this document – one sorted by Product Family (Table 1) and the other sorted by Part Number (Table 2).

Product Family	Description	Figure
Through-Hole Lamps	3mm, 4mm, 5mm Round and Oval Through-Hole LED Lamps	Figure 1a, Figure 1b
SMT PLCC	Surface Mountable LED Lamps	Figure 2a, Figure 2b
Color Sensor & Controller	Color Sensor	Figure 3
	Color Controller	Figure 4

Table 1. Index of Part Numbering System by Product Family

Part Number	Description / Product Family	Figure	
HLMP-Axxx-xxxxx	Through-Hole Lamps	Figure 1a, Figure 1b	
HLMP-Bxxx-xxxxx			
HLMP-Cxxx-xxxxx			
HLMP-Dxxx-xxxxx			
HLMP-Exxx-xxxxx			
HLMP-Fxxx-xxxxx			
HLMP-Gxxx-xxxxx			
HLMP-Hxxx-xxxxx			
HLMP-Kxxx-xxxxx			
HLMP-Lxxx-xxxxx			
HLMP-Mxxx-xxxxx			
HLMP-Rxxx-xxxxx			
HLMP-Sxxx-xxxxx			
HLMP-Wxxx-xxxxx			
HSMA-Axxx-xxxxx	SMT PLCC	Figure 2a, Figure 2b	
HSMB-Axxx-xxxxx			
HSMC-Axxx-xxxxx			
HSMD-Axxx-xxxxx			
HSME-Axxx-xxxxx			
HSMF-Axxx-xxxxx			
HSMG-Axxx-xxxxx			
HSMH-Axxx-xxxxx			
HSMJ-Axxx-xxxxx			
HSMK-Axxx-xxxxx			
HSML-Axxx-xxxxx			
HSMM-Axxx-xxxxx			
HSMN-Axxx-xxxxx			
HSMS-Axxx-xxxxx			
HSMU-Axxx-xxxxx			
HSMV-Axxx-xxxxx			
HSMW-Axxx-xxxxx			
HSMY-Axxx-xxxxx			
HSMZ-Axxx-xxxxx			
HDJD-Jxxx-xxxxx	Color Sensor & Controller	Figure 3, Figure 4	
HDJD-Sxxx-xxxxx			

Note:

1. For codes not listed in this table, please refer to the respective data sheet or contact nearest Avago representative for details.

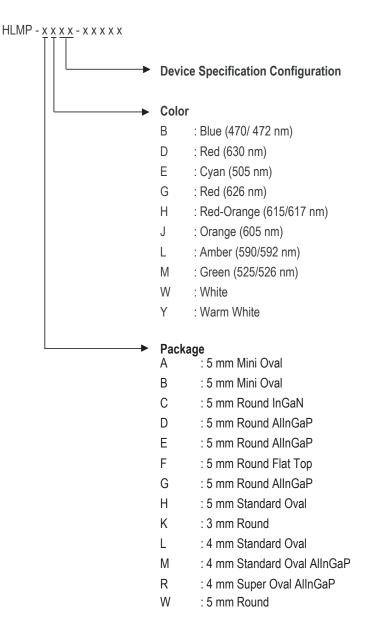


Figure 1a: Through-Hole Lamps

Notes:

1. For codes not listed in this table, please refer to the respective data sheet or contact nearest Avago representative for details.

2. Bin options refer to shippable bins for a part number. Color and intensity bins are typically restricted to 1 bin per bulk pack, ammo pack or reel (exceptions may apply). Please refer to respective data sheet for specific bin limit information.

HLMP - x x x x - <u>x x x</u>	XXX			
		Mech	anical Options	
		00	: Bulk Packaging	
		DD	: Ammo Pack	
		ΥY	: Flexi-Bin; Bulk Packaging	
		ZZ	: Flexi-Bin; Ammo Pack	
	► Color Bin Selections			
	0 : Full color distribution			
		А	: Color bin 1 & 2	
		В	: Color bin 2 & 3	
		С	: Color bin 3 & 4	
		D	: Color bin 4 & 5	
		Е	: Color bin 5 & 6	
		F	: Color bin 1, 2 & 3	
		G	: Color bin 2, 3 & 4	
		Н	: Color bin 3, 4 & 5	
		J	: Color bin 4, 5 & 6	
		Κ	: Color bin 2 & 4	
		L	: Color bin 4 & 6	
		М	: Color bin 2, 4 & 6	
		Ν	: Color bin 6 & 7	
		Р	: Special color bin range	
		Q	: Color bin 7 & 8	
		R	: Color bin 1, 2, 4 & 6, Vf max 2.6 V	
		S	: Color bin 2 & 4, Vf max 2.6 V	
		Т	: Red color, Vf max 2.6 V	
		U	: Color bin 4, Vf max 2.6 V	
		W	: Color bin 2, 4 & 6, Vf max 2.6 V	
		Y	: Color bin 4 & 6, Vf max 2.6 V	
		Ζ	: Special Vf bin range	
		Maxir	num Intensity Bin	
		0	: No maximum intensity bin limitation	
		Minin	num Intensity Bin	

Figure 1b: Through-Hole Lamps

Notes:

1. For codes not listed in this table, please refer to the respective data sheet or contact nearest Avago representative for details.

2. Bin options refer to shippable bins for a part number. Color and intensity bins are typically restricted to 1 bin per bulk pack, ammo pack or reel (exceptions may apply). Please refer to respective data sheet for specific bin limit information.

HSMx - A x x x - x x x x x Device Specification Configuration Package Type LED Chip Color

- A : AS AllnGaP Amber
- B : GaN Blue
- C : AS AllnGaP Red
- D : GaP Orange
- E : AllnGaP Green
- F : Bicolor / Tricolor
- G : GaP Green
- H : AlGaAs Red
- J : AS AllnGaP Red-Orange
- K : InGaN Cyan
- L : AS AllnGaP Orange
- M : InGaN Green
- N : InGaN Blue
- S : GaP Red
- U : TS AllnGaP Amber
- V : TS AllnGaP Red-Orange
- W : White
- Y : GaP Yellow
- Z : TS AllnGaP Red

Figure 2a: SMT PLCC

Notes:

- 1. For codes not listed in this table, please refer to the respective data sheet or contact nearest Avago representative for details.
- 2. Bin options refer to shippable bins for a part number. Color and intensity bins are typically restricted to 1 bin per bulk pack, ammo pack or reel (exceptions may apply). Please refer to respective data sheet for specific bin limit information.

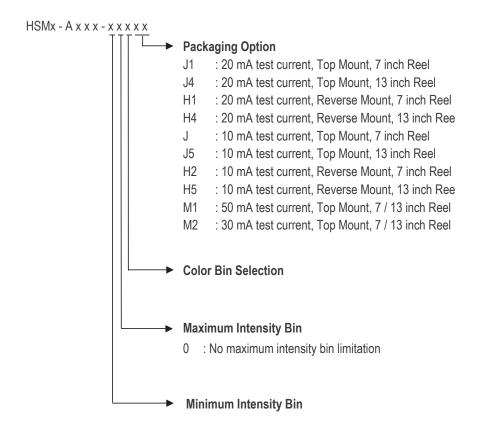
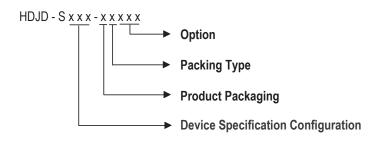


Figure 2b: SMT PLCC

Notes:

- 1. For codes not listed in this table, please refer to the respective data sheet or contact nearest Avago representative for details.
- 2. Bin options refer to shippable bins for a part number. Color and intensity bins are typically restricted to 1 bin per bulk pack, ammo pack or reel (exceptions may apply). Please refer to respective data sheet for specific bin limit information.





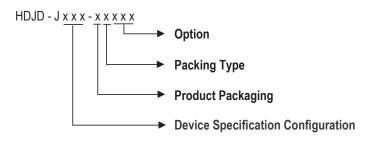
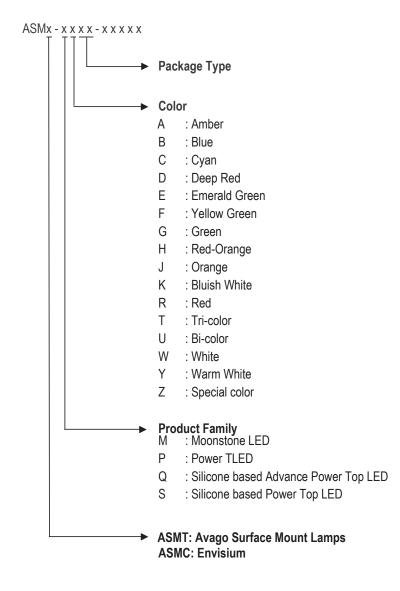


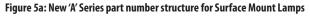
Figure 4: Color Controller

Section 2:

	5.		
Part Numbering System	Product Family	Figure	
ASMT-xxxx-xxxxx ASMC-xxxx-xxxxx	Surface Mount Lamps	Figure 5a, Figure 5b	
ADJD-xxxx	Backlighting / High Power LED	Figure 6	
ADJD-Sxxx-xxxxx	Color Sensor	Figure 7	
ADJD-Jxxx-xxxxx	Color Controller	Figure 8	







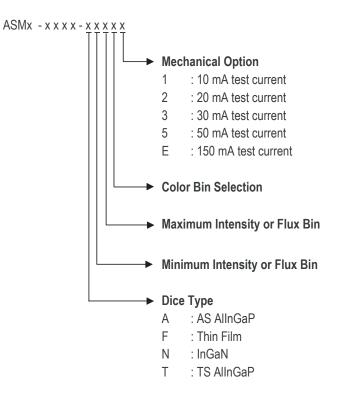


Figure 5b: New 'A' Series part number structure for Surface Mount Lamps

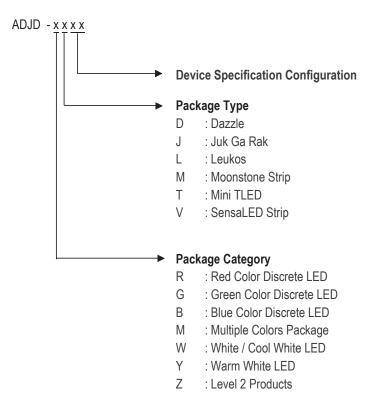
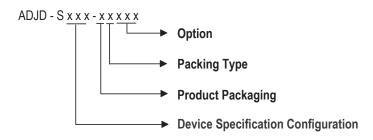
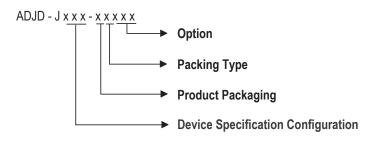


Figure 6: Backlighting/ High Power LED









For product information and a complete list of distributors, please go to our web site: www.avagotech.com

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