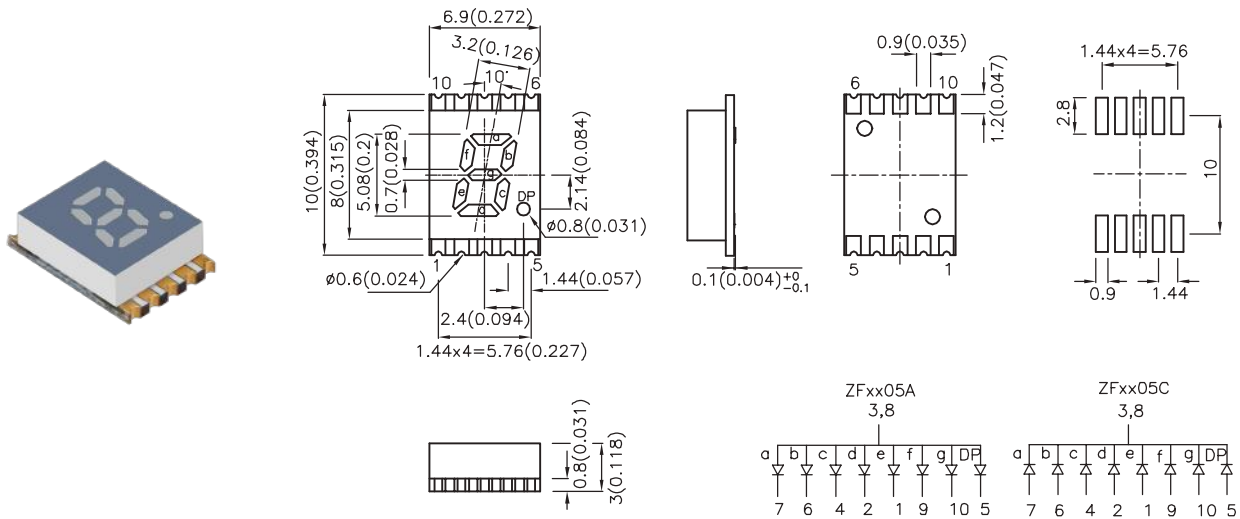


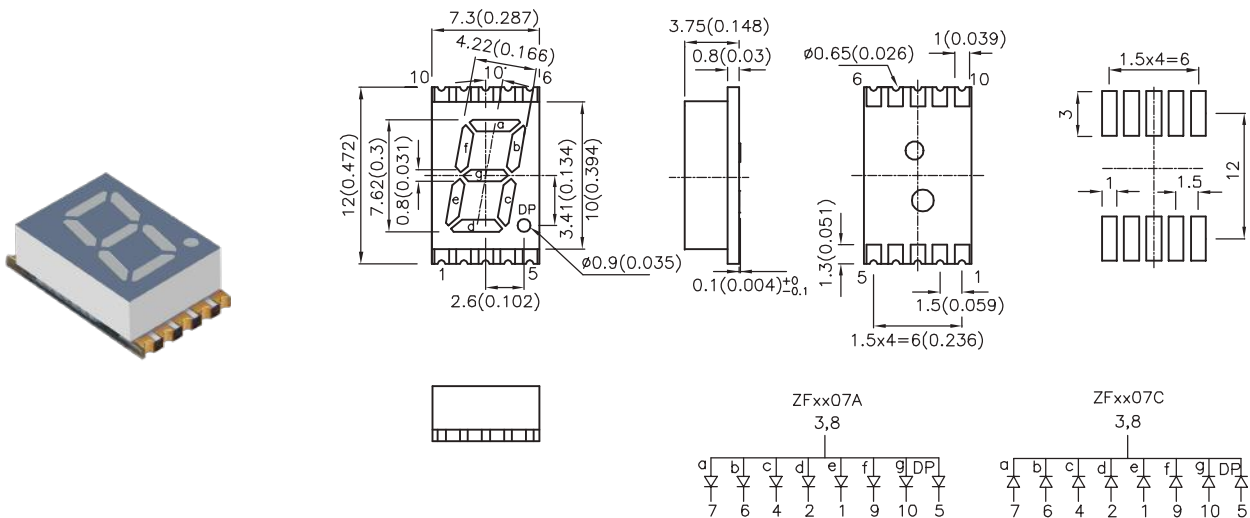
Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.2"(5.08mm)



ZFMDK05A	-	◆ AlGaInP(Red)	645	3600	8090
-	ZFMOK05C	◆ AlGaInP(Orange)	610	5600	11990
ZFVG05A	ZFVG05C	◆ AlGaInP(Green)	574	2200	4290

0.3"(7.62mm)

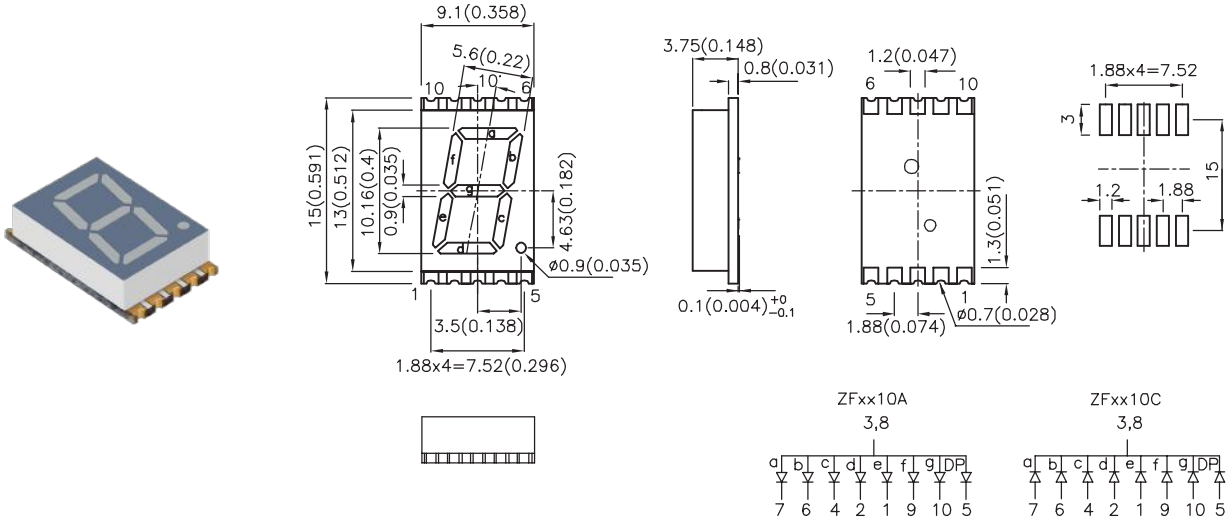


ZFMDK07A	ZFMDK07C	◆ AlGaInP(Red)	645	3600	6390
ZFMYK07A	-	◆ AlGaInP(Yellow)	590	5600	12990
ZFVG07A	ZFVG07C	◆ AlGaInP(Green)	574	1400	3090
ZFBBA07A	-	◆ InGaN(Blue)	468	1400	2490

1. Dimension Unit: mm(inches). Tolerance: ±0.25mm (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

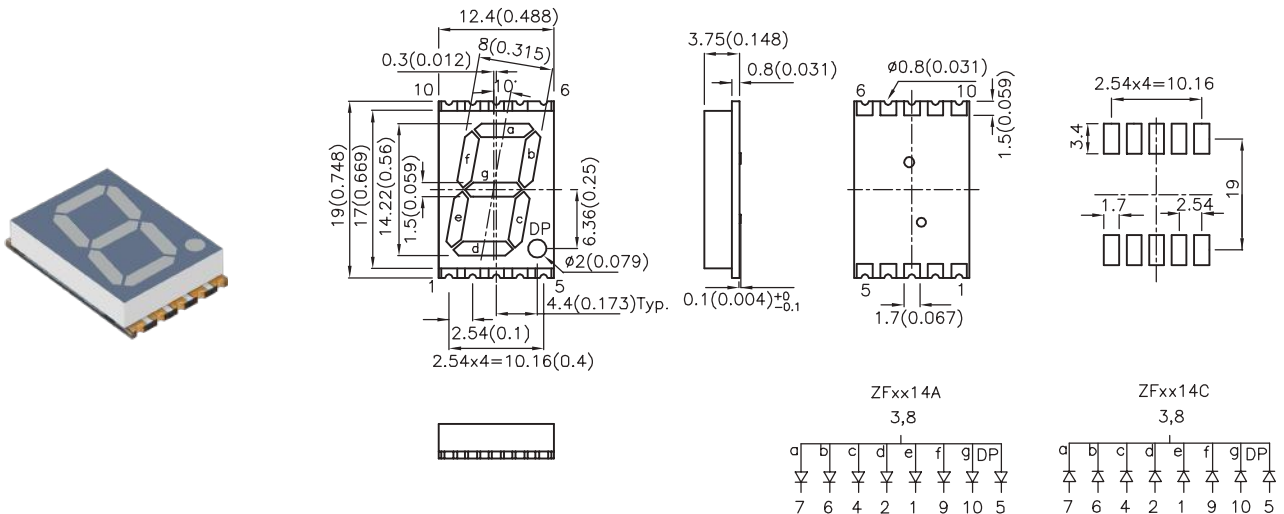
Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.4"(10.16mm)



ZFMDK10A	ZFMDK10C	◆ AlGaInP(Red)	645	9000	19990
ZFMOK10A	-	◆ AlGaInP(Orange)	610	9000	14990
ZFMYK10A	-	◆ AlGaInP(Yellow)	590	9000	22990
ZFVG10A	ZFVG10C	◆ AlGaInP(Green)	574	2200	4090

0.56"(14.22mm)

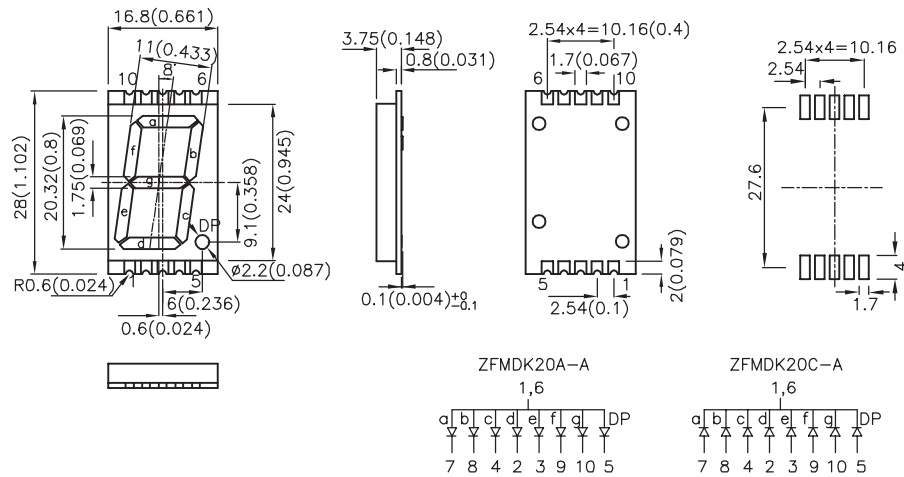
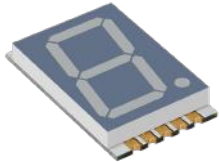


ZFMR14A	-	◆ GaAlAs(Red)	655	3600	7190
ZFMDK14A	ZFMDK14C	◆ AlGaInP(Red)	645	14000	28990
ZFMOK14A	-	◆ AlGaInP(Orange)	610	14000	22990
-	ZFMYK14C	◆ AlGaInP(Yellow)	590	14000	28990
ZFVG14A	-	◆ AlGaInP(Green)	574	2200	4590
ZFCBD14A	-	◆ InGaN(Blue)	460	5600	14990

1. Dimension Unit: mm(inches), Tolerance:  $\pm 0.25mm$  (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.8"(20.32mm)

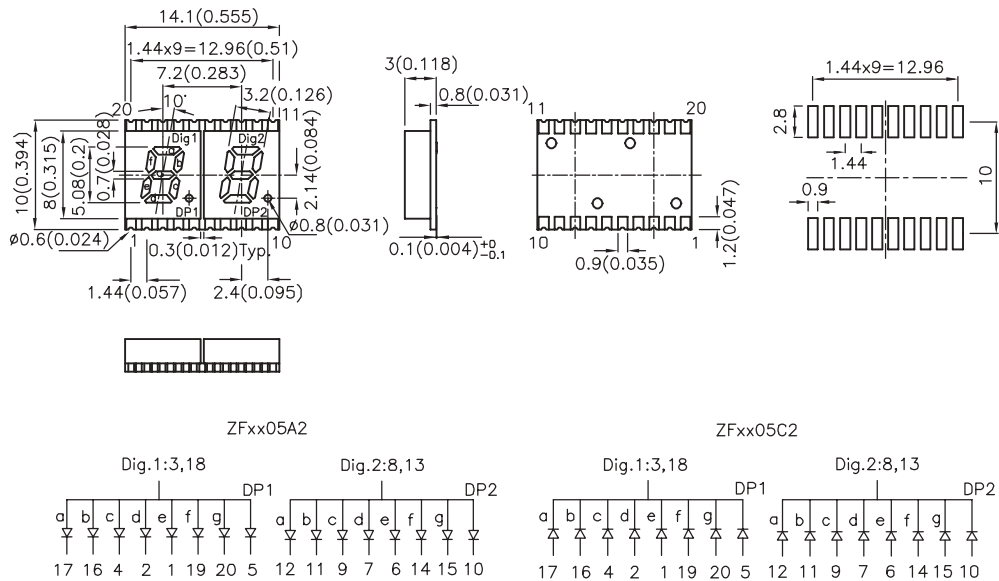


ZFMdk20A-A	ZFMdk20C-A	◆ AlGaInP(Red)	645	5600	11990
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DUAL DIGIT SMD

Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.2"(5.08mm)

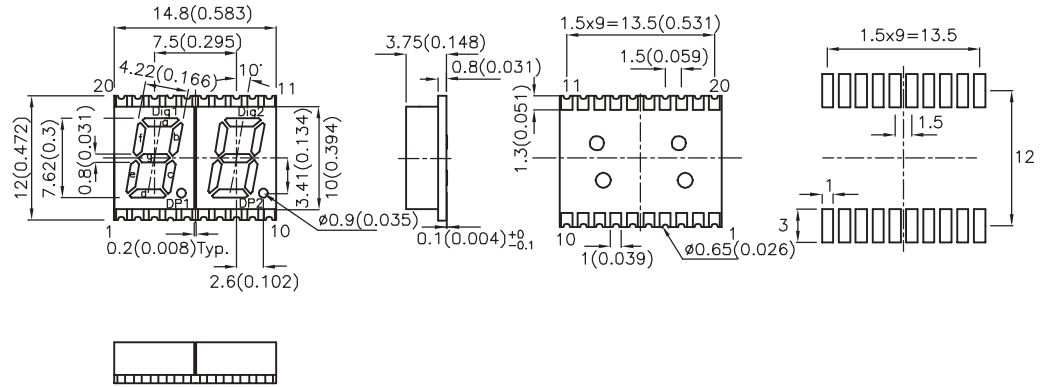
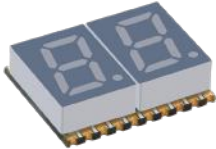


ZFMdk05A2	ZFMdk05C2	◆ AlGaInP(Red)	645	3600	8090
ZFMYk05A2	-	◆ AlGaInP(Yellow)	590	5600	14990
ZFVG05A2	ZFVG05C2	◆ AlGaInP(Green)	574	2200	4290

1. Dimension Unit: mm(inches), Tolerance:  $\pm 0.25mm$  (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

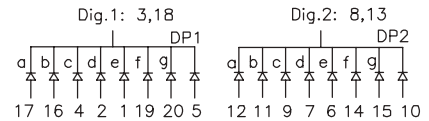
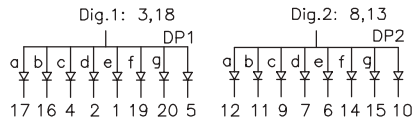
Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.3"(7.62mm)



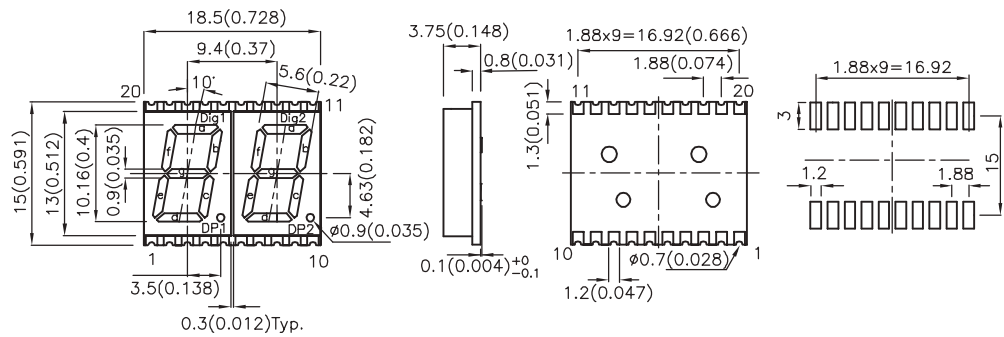
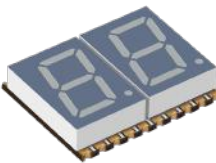
ZFxx07A2

ZFxx07C2

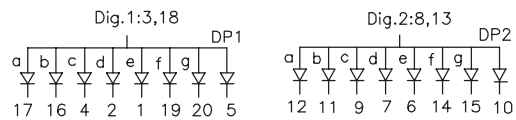


ZFMDK07A2	ZFMDK07C2	◆ AlGaInP(Red)	645	3600	6390
ZFVG07A2	-	◆ AlGaInP(Green)	574	1400	3090

0.4"(10.16mm)

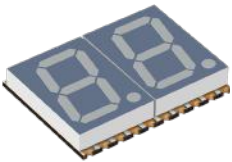
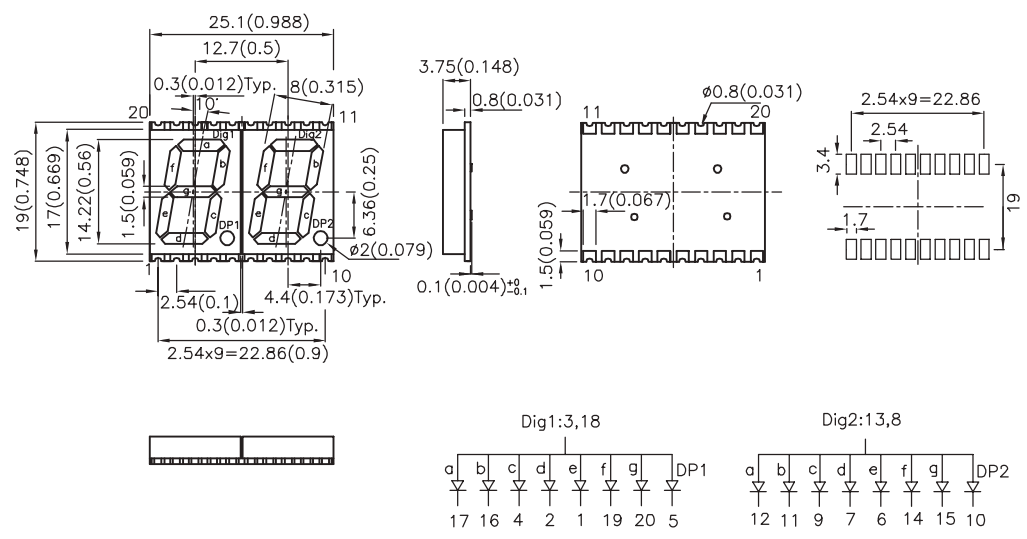


ZFxx10A2

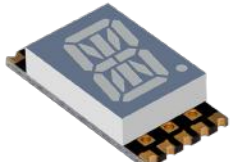
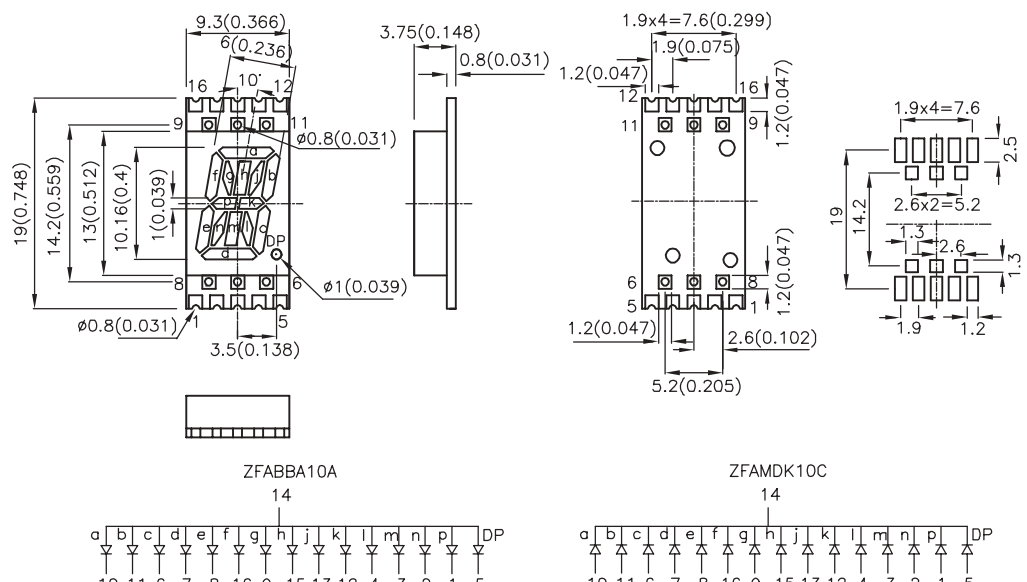


ZFMDK10A2	-	◆ AlGaInP(Red)	645	9000	19990
ZFMOK10A2	-	◆ AlGaInP(Orange)	610	9000	14990
ZFVG10A2	-	◆ AlGaInP(Green)	574	2200	4090

1. Dimension Unit: mm(inches), Tolerance:  $\pm 0.25mm$  (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.
<p><b>0.56"(14.22mm)</b></p>   <p>ZFVG14A2      -      <span style="color: green;">◆</span> AlGaInP(Green)      574      2200      4590</p>					

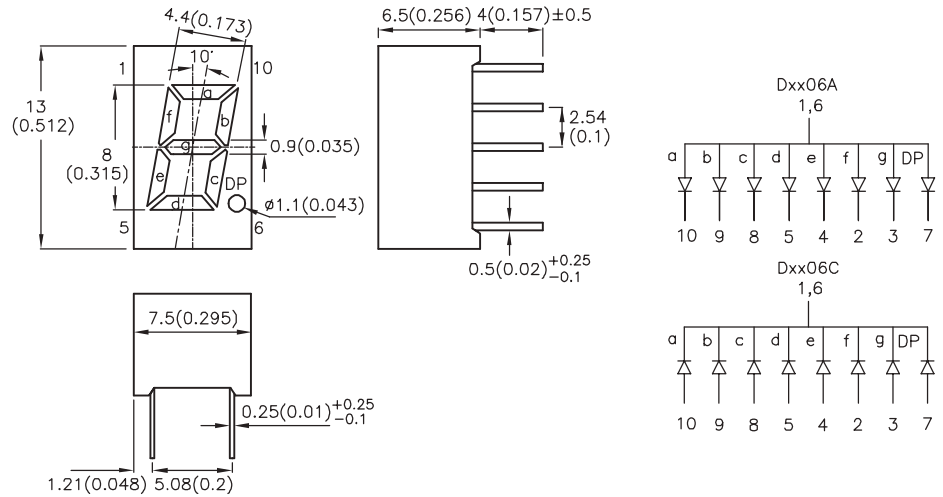
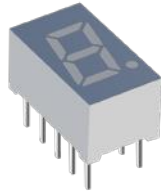
ALPHANUMERIC SMD

Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.
<p><b>0.4"(10.16mm)</b></p>   <p>ZFABBA10A      ZFAMDK10C</p> <p>-      ZFAMDK10C      <span style="color: red;">◆</span> AlGaInP(Red)      645      3600      8290</p> <p>ZFABBA10A      -      <span style="color: blue;">◆</span> InGaN(Blue)      468      1400      3090</p>					

1. Dimension Unit: mm(inches), Tolerance:  $\pm 0.25mm$  (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

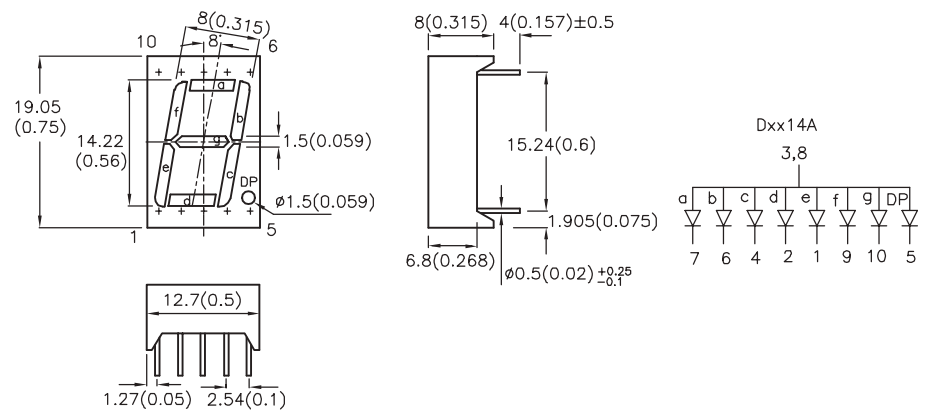
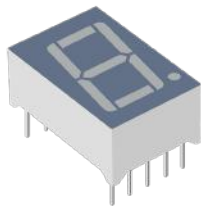
Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.32"(8mm)



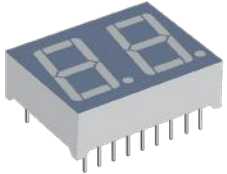
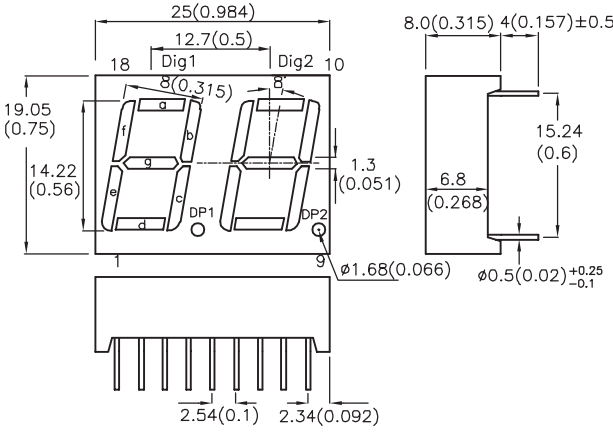
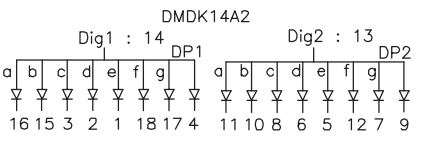
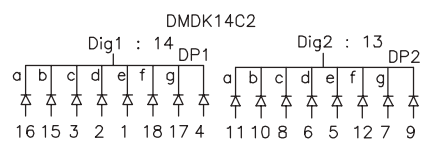
DMR06A	DMR06C	◆ GaAlAs(Red)	655	5600	9990
DUR06A	-	◆ GaAsP/GaP(Red)	627	1400	3290
DUG06A	-	◆ GaP(Green)	565	1400	2490

0.56"(14.22mm)

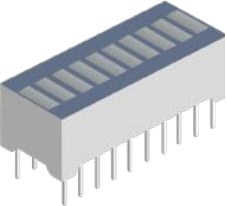
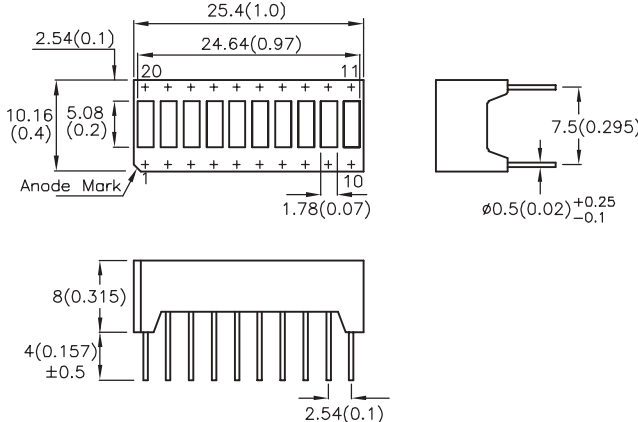
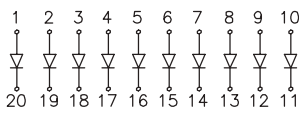


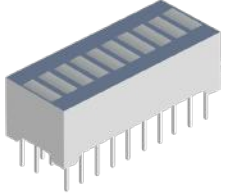
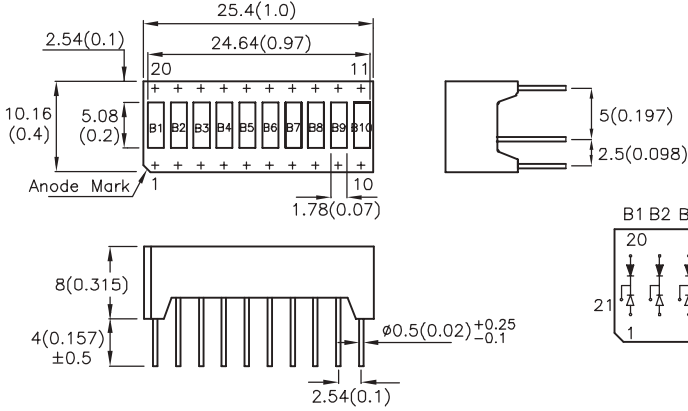
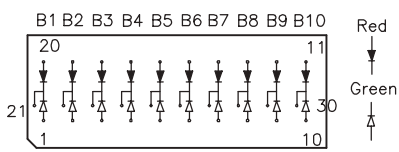
DMDK14A	-	◆ AlGaInP(Red)	645	14000	26990
DVG14A	-	◆ AlGaInP(Green)	574	5600	11990
DCBD14A	-	◆ InGaN(Blue)	460	9000	23990

1. Dimension Unit: mm(inches), Tolerance:  $\pm 0.25mm$  (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

Part Number		Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.
<b>0.56"(14.22mm)</b>					
   					
DMDK14A2	DMDK14C2	◆ AlGaInP(Red)	645	9000	23990

BAR GRAPH ARRAY

Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(ucd) $I_f=10mA$	
			Min.	Typ.
<b>10 Segment</b>				
  				
GMDKX10D	◆ AlGaInP(Red)	645	9000	24990
GMYKX10D	◆ AlGaInP(Yellow)	590	9000	20990
GVGX10D	◆ AlGaInP(Green)	574	3600	7990

<b>10 Segment (Bi-Color)</b>				
  				
GMDKVGX10D	◆ AlGaInP(Red) ◆ AlGaInP(Green)	645 574	9000 3600	24990 7990

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.