

Optoelectronic Components Catalogue

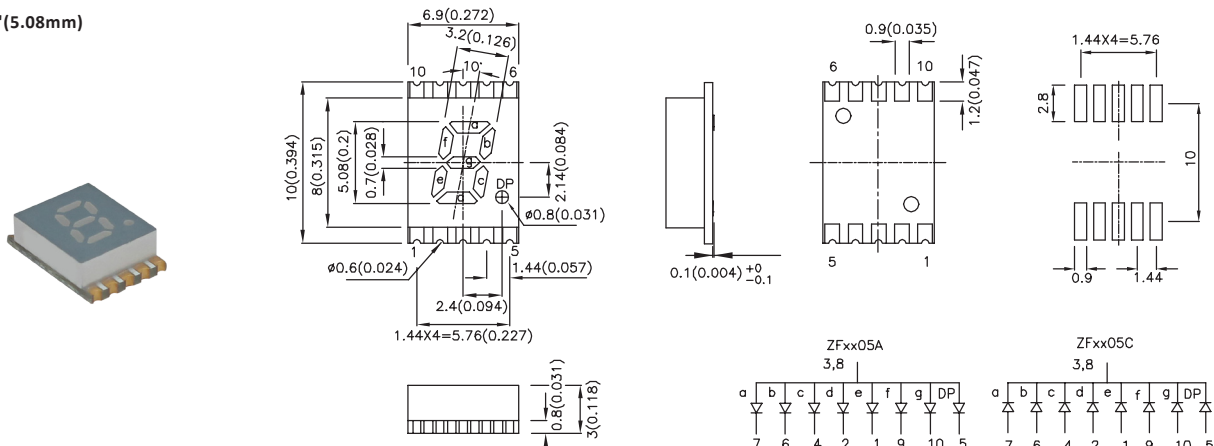
2017-2018



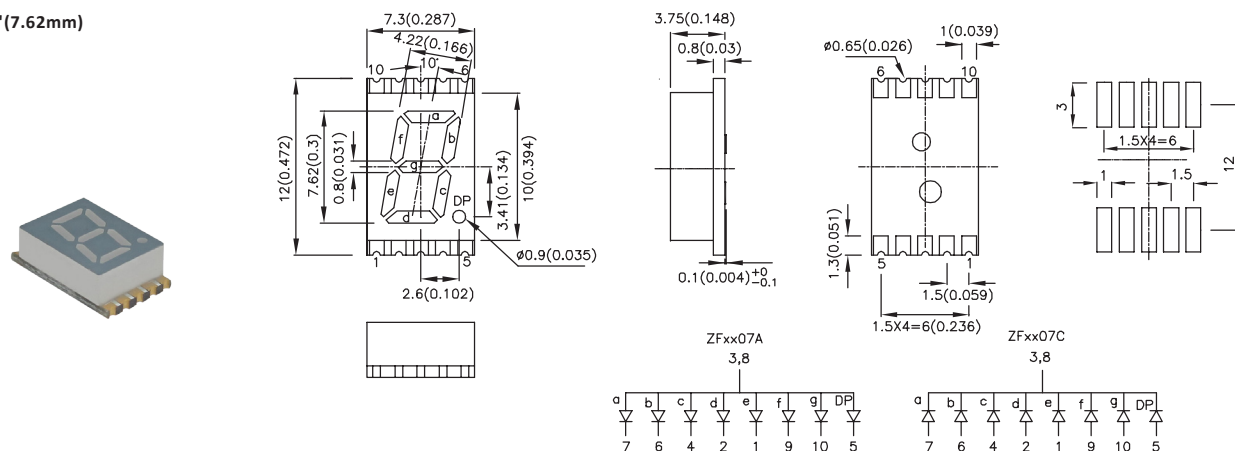
GUARANTEED TO SHINE

TS16949 Automotive • ISO9001 Quality • ISO14001 Environmental

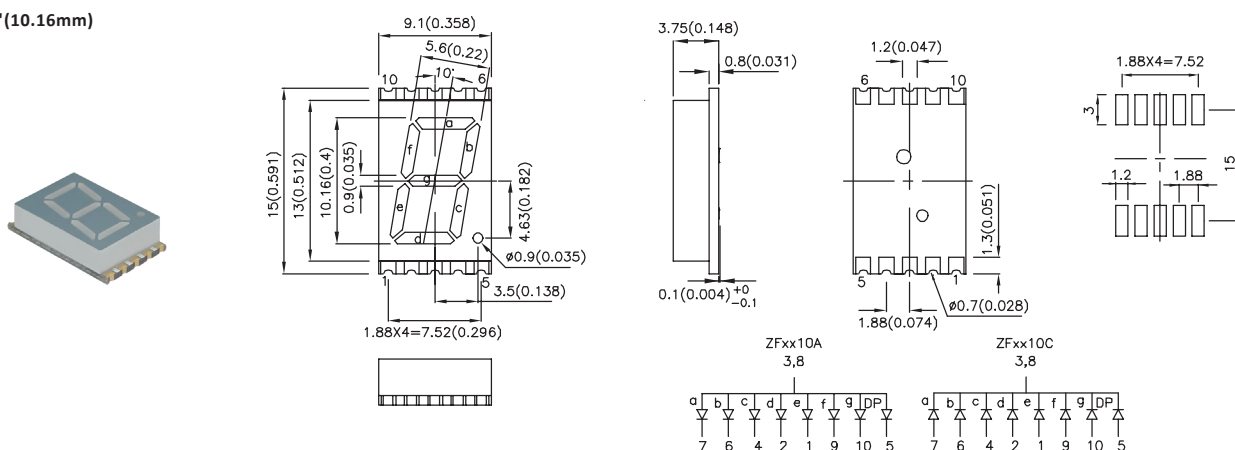
Part Number		Chip Structure (Emitted Color)	λ_{peak} (nm)	Intensity(ucd) $I_f=10mA$	
Common Anode	Common Cathode			Min.	Typ.

0.2"(5.08mm)

ZFMDK05A	ZFMDK05C	◆ AlGaInP(Red)	645	3600	8090
ZFMYK05A	ZFMYK05C	◆ AlGaInP(Yellow)	590	5600	14990
ZFVG05A	ZFVG05C	◆ AlGaInP(Green)	574	2200	4290
ZFBBA05A	ZFBBA05C	◆ InGaN(Blue)	468	2200	4290

0.3"(7.62mm)

ZFMDK07A	ZFMDK07C	◆ AlGaInP(Red)	645	3600	6390
ZFMYK07A	ZFMYK07C	◆ AlGaInP(Yellow)	590	5600	12990
ZFVG07A	ZFVG07C	◆ AlGaInP(Green)	574	1400	3090
ZFBBA07A	ZFBBA07C	◆ InGaN(Blue)	468	1400	2490

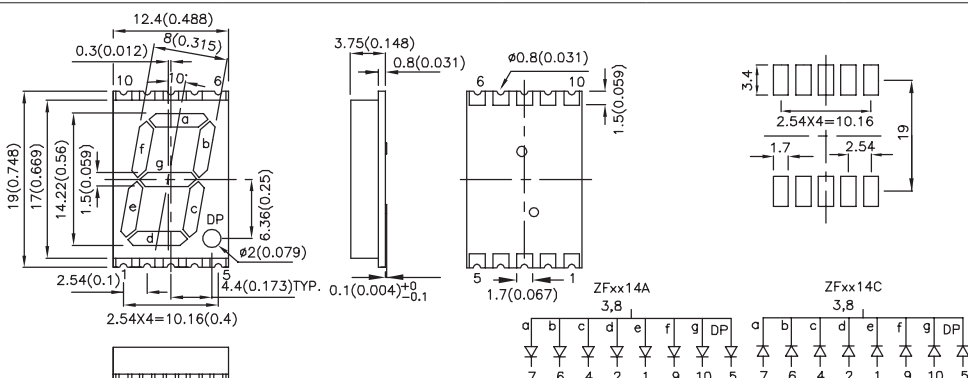
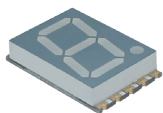
0.4"(10.16mm)

ZFMDK10A	ZFMDK10C	◆ AlGaInP(Red)	645	9000	19990
ZFMYK10A	ZFMYK10C	◆ AlGaInP(Yellow)	590	9000	22990
ZFVG10A	ZFVG10C	◆ AlGaInP(Green)	574	2200	4090
ZFBBA10A	ZFBBA10C	◆ InGaN(Blue)	468	2200	5190

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.

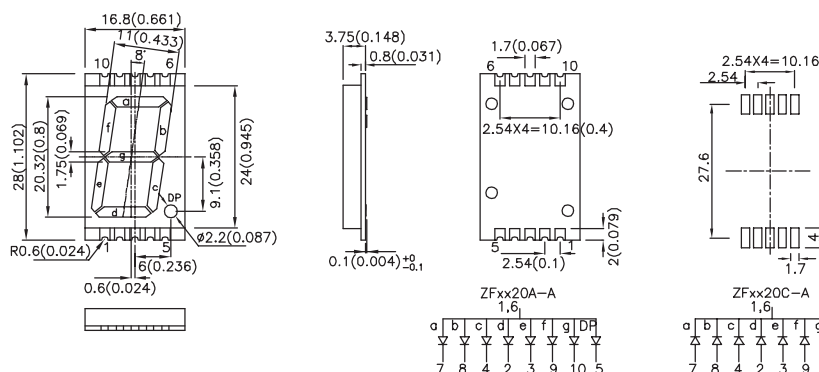
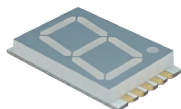
Part Number		Chip Structure (Emitted Color)	λ_{peak} (nm)	Intensity(ucd) I _r =10mA	
Common Anode	Common Cathode			Min.	Typ.

0.56"(14.22mm)



ZFMDK14A	ZFMDK14C	◆ AlGaInP(Red)	645	14000	28990
ZFMYK14A	ZFMYK14C	◆ AlGaInP(Yellow)	590	14000	28990
ZFVG14A	ZFVG14C	◆ AlGaInP(Green)	574	2200	4590
ZFDGK14A	ZFDGK14C	◆ InGaIn(Green)	515	21000	50990
ZFCBD14A	ZFCBD14C	◆ InGaIn(Blue)	460	5600	14990

0.8" (20.32mm)

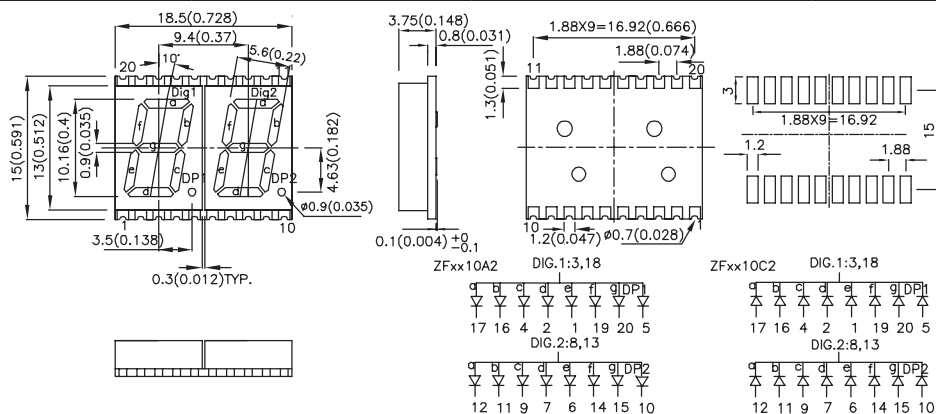
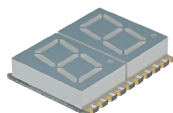


ZFMDK20A-A	ZFMDK20C-A	◆ AlGaInP(Red)	645	5600	11990
ZFMYK20A-A	ZFMYK20C-A	◆ AlGaInP(Yellow)	590	14000	29990
ZFVG20A-A	ZFVG20C-A	◆ AlGaInP(Green)	574	2200	5990
ZFDGK20A-A	ZFDGK20C-A	◆ InGaN(Green)	515	21000	39990
ZFCBD20A-A	ZFCBD20C-A	◆ InGaN(Blue)	460	3600	8690

DUAL DIGIT SMD

Part Number		Chip Structure (Emitted Color)	λ_{peak} (nm)	Intensity(I _{cd}) I _f =10mA	
Common Anode	Common Cathode			Min.	Typ.

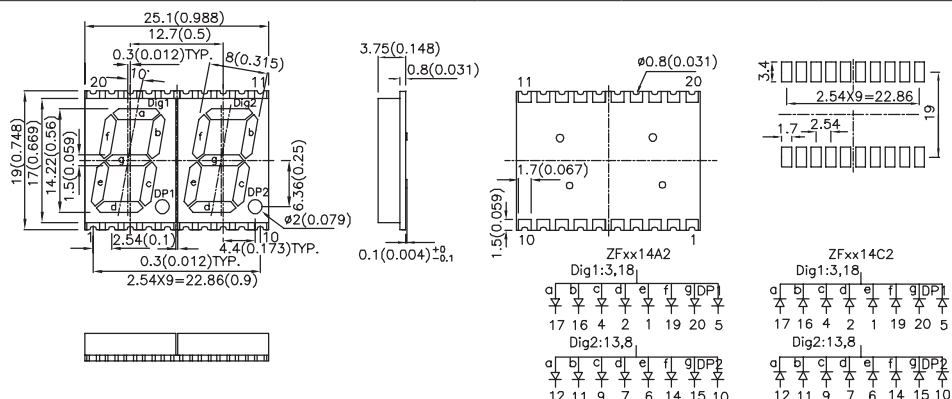
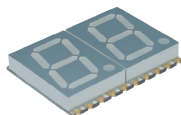
0.4"(10.16mm)



ZFMDK10A2	ZFMDK10C2	◆ AlGaInP (Red)	645	9000	19990
ZFMYK10A2	ZFMYK10C2	◆ AlGaInP (Yellow)	590	9000	22990
ZFVG10A2	ZFVG10C2	◆ AlGaInP (Green)	574	2200	4090
ZFBBA10A2	ZFBBA10C2	◆ InGaN (Blue)	468	2200	5190

1. Dimension Unit: mm(inches), Tolerance: $\pm 0.25\text{mm}$ (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.

0.56" (14.22mm)

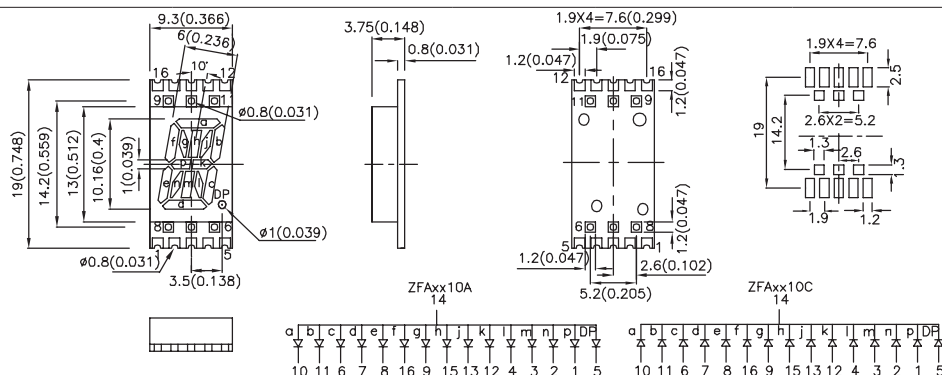


ZFMDK14A2	ZFMDK14C2	◆ AlGalnP(Red)	645	14000	28990
ZFMYK14A2	ZFMYK14C2	◆ AlGalnP(Yellow)	590	14000	28990
ZFVG14A2	ZFVG14C2	◆ AlGalnP(Green)	574	2200	4590
ZFDGK14A2	ZFDGK14C2	◆ InGaN(Green)	515	21000	50990
ZFCBD14A2	ZFCBD14C2	◆ InGaN(Blue)	460	5600	14990

ALPHANUMERIC SMD

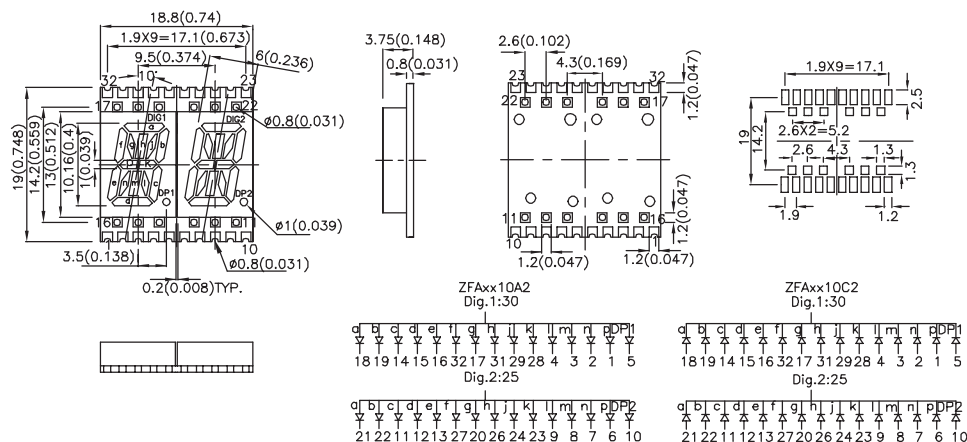
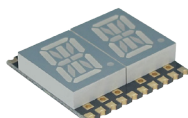
Part Number		Chip Structure (Emitted Color)	λ_{peak} (nm)	Intensity(ucd) I _f =10mA	
Common Anode	Common Cathode			Min.	Typ.

0.4" (10.16mm)



ZFAMDK10A	ZFAMDK10C	◆ AlGaInP(Red)	645	3600	8290
ZFAMYK10A	ZFAMYK10C	◆ AlGaInP(Yellow)	590	5600	11990
ZFAVG10A	ZFAVG10C	◆ AlGaInP(Green)	574	1400	3090
ZFABBA10A	ZFABBA10C	◆ InGaN(Blue)	468	2200	5790

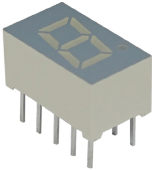
0.4" (10.16mm)

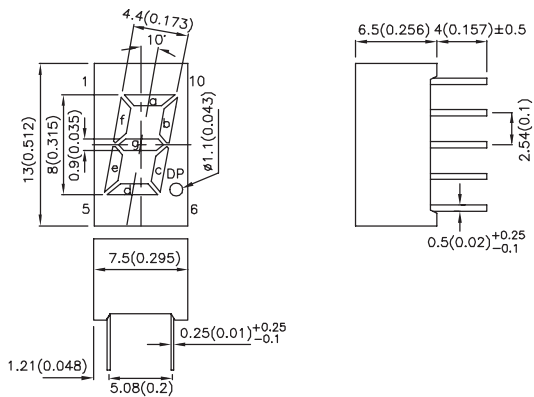


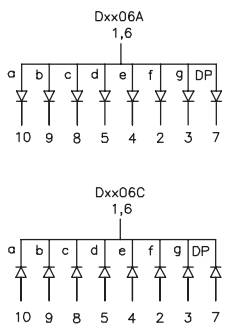
ZFAMDK10A2	ZFAMDK10C2	◆ AlGaInP(Red)	645	3600	8290
ZFAMYK10A2	ZFAMYK10C2	◆ AlGaInP(Yellow)	590	5600	11990
ZFAVG10A2	ZFAVG10C2	◆ AlGaInP(Green)	574	1400	3090
ZFABBA10A2	ZFABBA10C2	◆ InGaN(Blue)	468	2200	5790

1. Dimension Unit: mm(inches), Tolerance: $\pm 0.25\text{mm}$ (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.

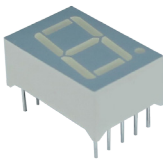
Part Number		Chip Structure (Emitted Color)	λ_{peak} (nm)	Intensity(ucd) $I_f=10\text{mA}$	
Common Anode	Common Cathode			Min.	Typ.

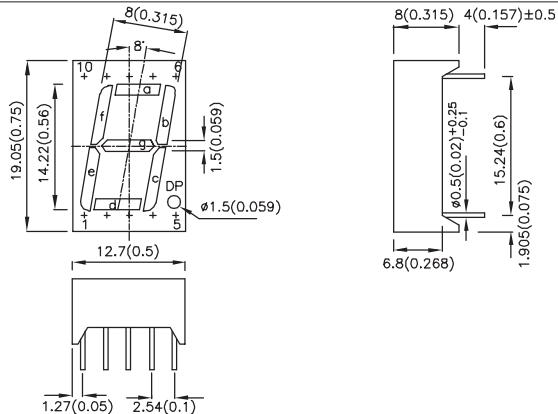


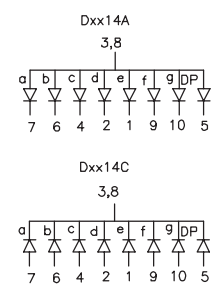




DUR06A	DUR06C	♦ GaAsP/GaP(Red)	627	1400	3290
DMR06A	DMR06C	♦ GaAlAs(Red)	655	5600	9990
DUY06A	DUY06C	♦ GaAsP/GaP(Yellow)	590	900	1690
DUG06A	DUG06C	♦ GaP(Green)	565	1400	2490



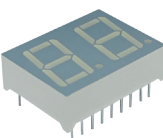


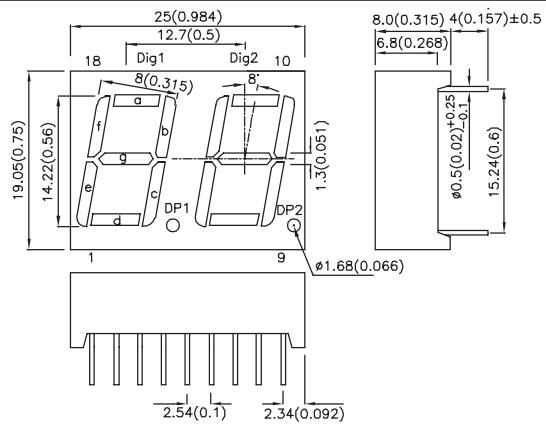


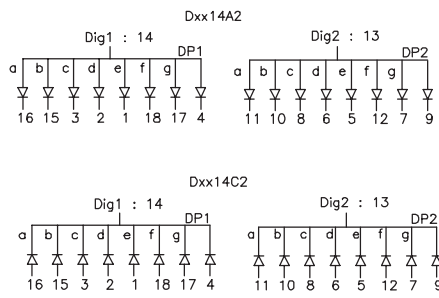
DMDK14A	DMDK14C	♦ AlGaInP(Red)	645	14000	26990
DMYK14A	DMYK14C	♦ AlGaInP(Yellow)	590	21000	47990
DVG14A	DVG14C	♦ AlGaInP(Green)	574	5600	11990
DCBD14A	DCBD14C	♦ InGaN(Blue)	460	9000	23990

DUAL DIGIT

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







DMDK14A2	DMDK14C2	♦ AlGaInP(Red)	645	9000	23990
DMYK14A2	DMYK14C2	♦ AlGaInP(Yellow)	590	21000	39990
DVG14A2	DVG14C2	♦ AlGaInP(Green)	574	5600	11990

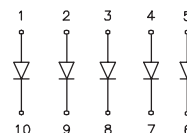
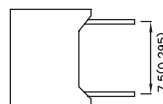
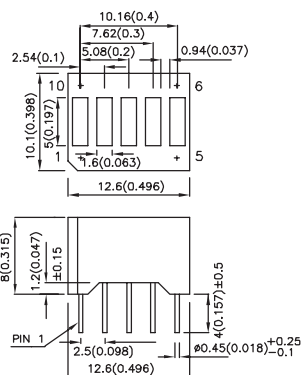
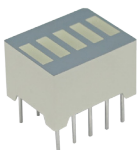
1. Dimension Unit: mm(inches), Tolerance: $\pm 0.25\text{mm}$ (0.01").

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.

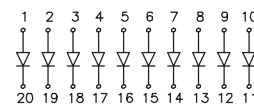
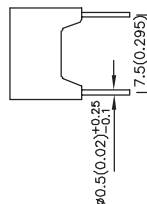
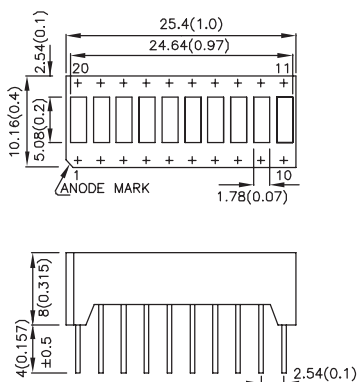
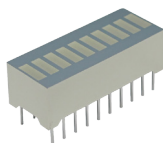


5 Segment



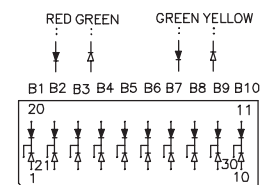
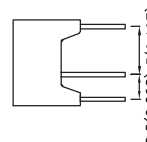
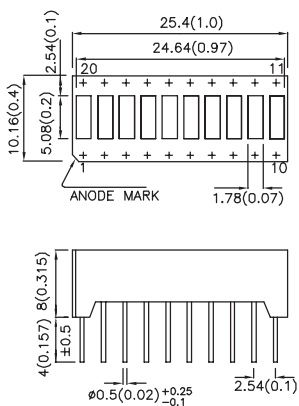
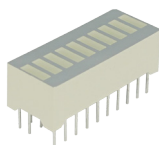
GURX5D	◆ GaAsP/GaP(Red)	627	900	1990
GMRX5D	◆ GaAlAs(Red)	655	3600	7990
GUYX5D	◆ GaAsP/GaP(Yellow)	590	900	2390
GUGX5D	◆ GaP(Green)	565	1400	3990

10 Segment



GURX10D	◆ GaAsP/GaP(Red)	627	900	1990
GMRX10D	◆ GaAlAs(Red)	655	3600	7990
GUYX10D	◆ GaAsP/GaP(Yellow)	590	900	2390
GUGX10D	◆ GaP(Green)	565	1400	3990
GCBDX10D	◆ InGaN(Blue)	460	3600	9390

**10 Segment
(Bi-Color)**

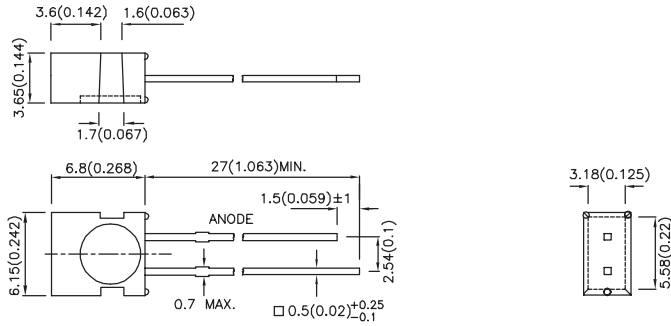


GURUGX10D	◆ GaAsP/GaP(Red)	627	900	1990
	◆ GaP(Green)	565	1400	3990
GUGUYX10D	◆ GaP(Green)	565	1400	3990
	◆ GaAsP/GaP(Yellow)	590	900	2390

1. Dimension Unit: mm(inches), Tolerance: $\pm 0.25\text{mm}$ (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)	λ_{peak} (nm)	Intensity(mcd) $I_f=10\text{mA}, 20\text{mA}^*$		Viewing Angle 2 θ 1/2	Lens
			Min.	Typ.		

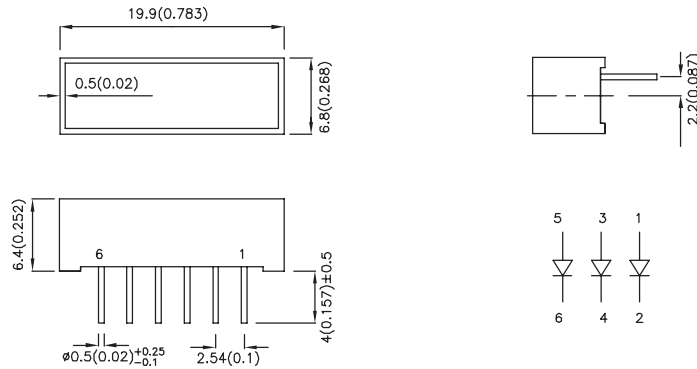
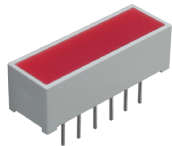
3.65x6.15mm



EUR21D	◆ GaAsP/GaP(Red)	627	2	3.8	140°	Red Diffused
EMR21D	◆ GaAlAs(Red)	655	*20	*49	140°	Red Diffused
EUY21D	◆ GaAsP/GaP(Yellow)	590	2	4.8	140°	Yellow Diffused
EMG21D	◆ GaP(Green)	565	*8	*15	140°	Green Diffused

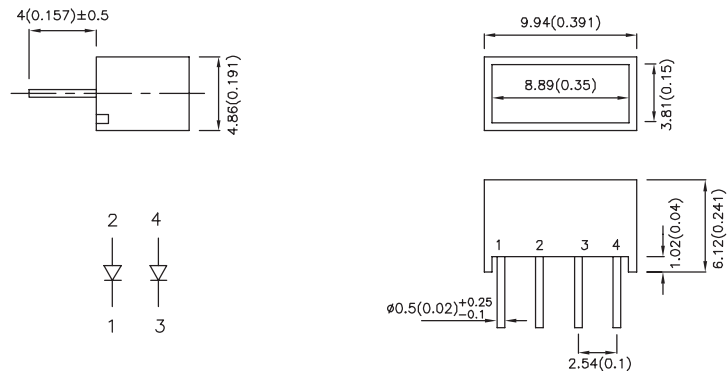
Part Number	Chip Structure (Emitted Color)	λ_{peak} (nm)	Intensity(mcd) $I_f=10\text{mA}, 20\text{mA}^*$		Lens
			Min.	Typ.	

6.8x19.9mm



EUR30D	◆ GaAsP/GaP(Red)	627	3.6	8	Red Diffused
EMR30D	◆ GaAlAs(Red)	655	*40	*74	Red Diffused
EUY30D	◆ GaAsP/GaP(Yellow)	590	3.6	9	Yellow Diffused
EMG30D	◆ GaP(Green)	565	*8	*19	Green Diffused

8.89x3.81mm



EUR2300M	◆ GaAsP/GaP(Red)	627	*5	*9	White Diffused
EMRA100M	◆ GaAlAs(Red)	655	*12	*29	White Diffused
EUY2400M	◆ GaAsP/GaP(Yellow)	590	*3	*7	White Diffused
EMG2500D	◆ GaP(Green)	565	*5	*9	Green Diffused

1. Dimension Unit: mm(inches), Tolerance: $\pm 0.25\text{mm}$ (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.

