CLOCK DISPLAY

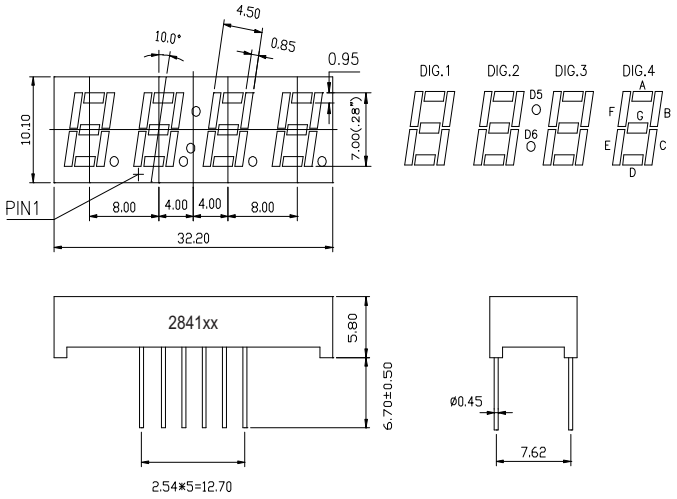
Part NO.: 2841 CX / DX - XX

DESCRIPTION

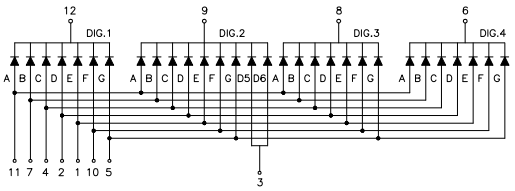
- **7.00mm (0.28") Four Digit Clock Display Series**
- **Standard Brightness**
- **Low Current Operation**
- **Excellent Character Appearance**
- **Easy Mounting on PC Boards or Sockets**

Package Dimensions & Internal Circuit Diagram

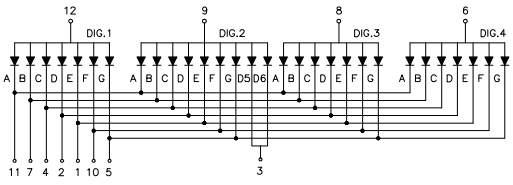
2841 Series



2841Cx



2841Dx



Notes:

All dimensions are in millimeters (inches)
Tolerance is ±0.25 (0.01") unless otherwise noted.
Specifications are subject to change without prior notice.

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Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	V_R	IR= 30 μA	5	-----	V
Forward Current	I_f	-----	------	20	mA
Power Dissipation	P_d	-----	------	100	mW
Pulse Current	Ipeak	Duty = 0.1ms, 1KHz	------	150	mA
Operating Temperature	Topr	-----	- 40	+85	°C
Storage Temperature	Tstr	-----	- 40	+85	°C

XX :Surface / Epoxy Color :

Surface Color	White	Black	Gray	Red		
Number	0	1	2	3	4	5
Epoxy Color	White Diffused	Red Diffused	Green Diffused	Yellow Diffused	Blue Diffused	Water Clear
Number	0	1	2	3	4	5

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Description :

Color Code & Chip Characteristics: (Test Condition: If = 20mA)

Color		Die Material	Peak Wave Length (λp)	Spectral Line Half Width (Δ λ1/2)	Forward Voltage (Vf) per Seg		Luminous Intensity (Iv) Unit : mcd
					Typ	Max	
H	Hi Red	AlGaAs, SH	660nm	20nm	1.80	2.20	15-20
D	Super Red	AlGaAs,DH	660nm	20nm	1.80	2.20	20-30
LR	Ultra Red	AlGaAs,DDH	660nm	20nm	1.90	2.40	26-38
HR	HE Red	GaAsP	640nm	45nm	1.90	2.40	50-80
E	Orange	GaAsP	630nm	35nm	2.10	2.50	40-80
S	Super Red	AlGaInp	630nm	20nm	2.10	2.50	30-40
ULTRA BRIGHT							
UH R	Ultra Hi Red	AlGaInP	645nm	20nm	2.10	2.50	80-150
UE	Ultra Orange	AlGaInP	630mn	20nm	2.10	2.50	180-210
UA	Ultra Amber	AlGaInP	610nm	20nm	2.10	2.50	90-120
UY	Ultra Yellow	AlGaInP	590nm	20nm	2.10	2.50	60-100
UG	Ultra Green	AlGaInP	570nm	30nm	2.20	2.50	60-100
UPG	Ultra Pure Green	InGaN	520nm	36nm	2.80	3.80	260-310
UB	Ultra Blue	InGaN	470nm	30nm	2.80	3.80	80-90
W	White	InGaN	X=0.29, Y=0.30		2.80	3.80	180-200
Segment to Segment Luminous Intensity ratio (Iv-M) 1.5: 1							

TWILIGHT

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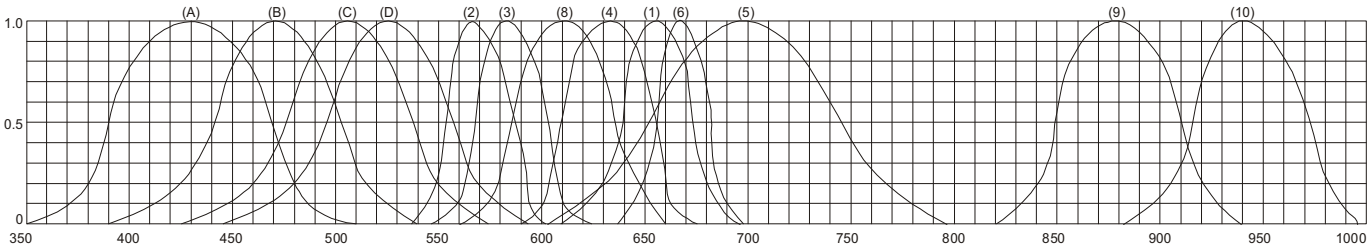
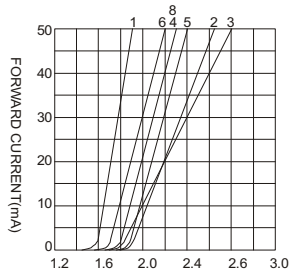
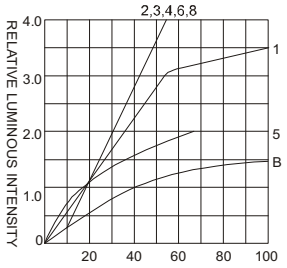


RELATIVE INTENSITY Vs WAVELENGTH (λ_P)

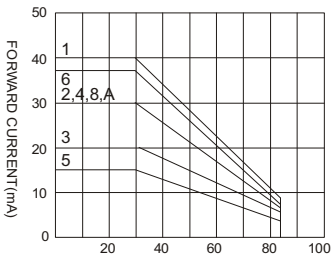
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue
(B) - InGaN/SiC 470nm/Blue
(C) - InGaN/SiC 505nm/Ultra Green
(D) - InGaAl/SiC 525nm/Ultra Green



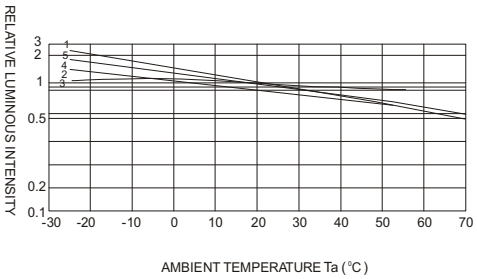
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



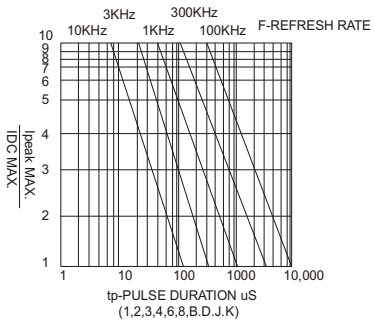
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



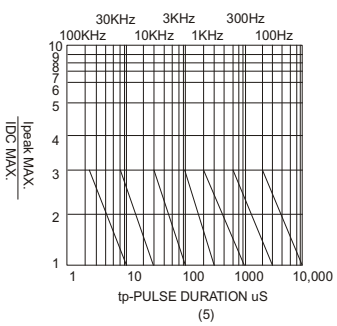
AMBIENT TEMPERATURE Ta (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta (°C)



tp-PULSE DURATION uS
(1,2,3,4,6,8,B.D.J.K)



tp-PULSE DURATION uS
(5)

NOTE: 25°C free air temperature unless otherwise specified