

Features:

- 60.20mm (2.3") F 5.0 dot matrix LED display.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C.boards or sockets.
- I.C.compatible.

Part No.:

Common Cathode	Iv TYP.(mcd)	Common Anode	Iv TYP.(mcd)
FYM-23881ARGB-XX	1536	FYM-23881BRGB-XX	1536
FYM-23881AURUGUB-XX	3648	FYM-23881BURUGUB-XX	3648

Description:

- Color Code & Chip characteristics: (Test Condition: IF=20mA)

Emitting Color		Dice Material	Peak Wave Length (λ P)	Spectral Line halfwidth(λ 1/2)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:ucd
					Typ	Max	
H	Red	GaP/GaP	700nm	90nm	2.25	2.60	500
G	Green	GaP/GaP	570nm	30nm	2.20	2.50	2500
B	Blue	InGaN	430nm	30nm	3.80	4.50	5000
UR	Ultra Red	AlGaAs,DDH	660nm	20nm	1.95	2.20	7000
UG	Ultra Green	AlGaInP	574nm	30nm	2.20	2.50	5000
UB	Ultra Blue	InGaN	470nm	30nm	3.50	4.20	7000

- -XX: Surface / Lens color :

Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

Electrical-optical characteristics: (Ta=25)

Parameter	Symbol	AlGaAs	GaAsP	GaP(Green)	AlGaInP	InGaN	Unit
Power Dissipation	P_{ad}	60	80	80	75	120	mW
Peak Forward Current *	I_{pf}	150	150	150	150	100	mA
Continuous Forward Current	I_{af}	25	30	30	30	30	mA

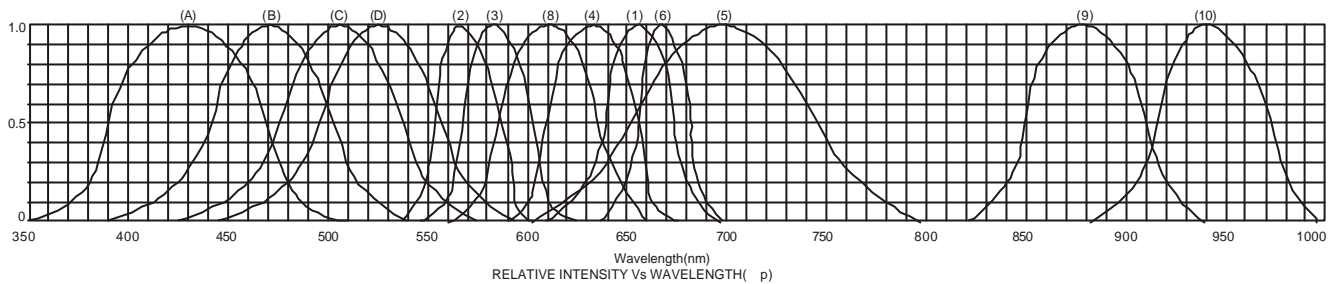
Notes:

- * Test Condition = Duty 0.1,10KHZ

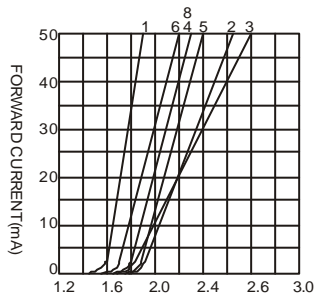
Absolute maximum ratings (Ta=25)

Reverse Voltage	5V
Reverse Current	20 μ A
Operating Temperature Range	-40 to+85
Storage Temperature Range	-40 to+85
Lead Solder Temperature (1.6mm(1/16")from body)	230 for 5 Seconds

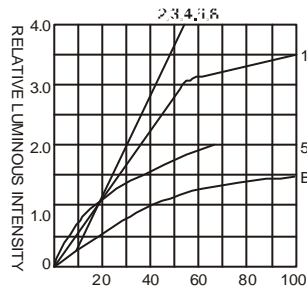
Typical electrical-optical characteristics curves:



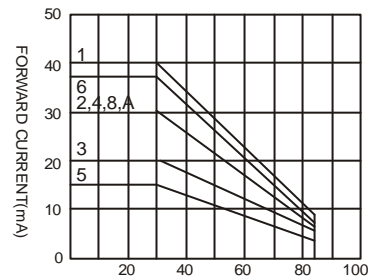
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



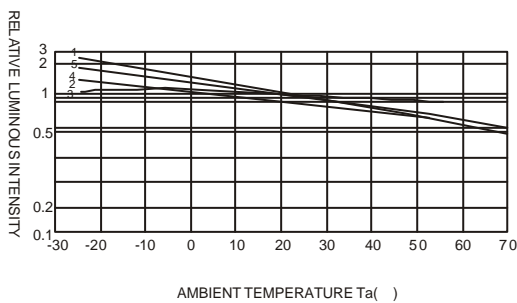
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



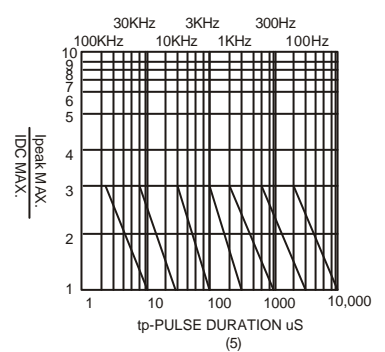
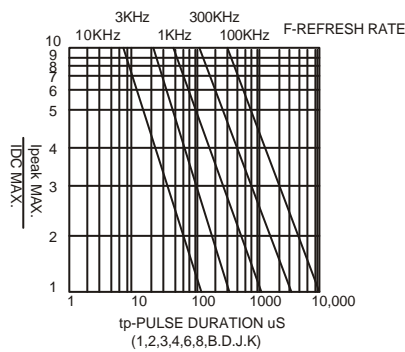
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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



AMBIENT TEMPERATURE Ta(°C)



NOTE:25 free air temperature unless otherwise specified