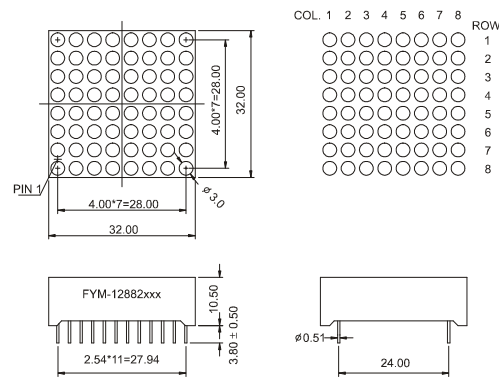


## DESCRIPTION

- 32.00mm (1.2")  $\Phi$ 3.0 dot matrix LED display.
- Standard brightness.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C.boards or sockets

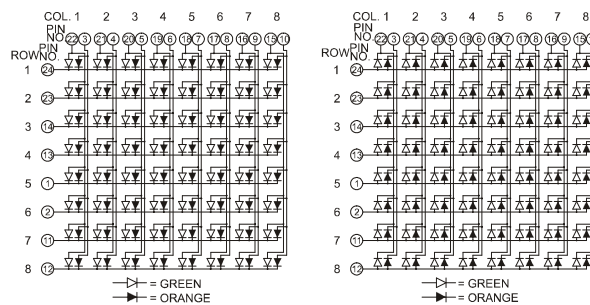
## Package Dimensions & Internal Circuit Diagram

FYM-12882 Series



FYM-12882Cxx

FYM-12882Dxx



### Notes:

- All dimensions are in millimeters (inches)
- Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.

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E-mail:sales@foryard.com

·Specifications are subject to change without notice.

**: Absolute maximum ratings (Ta=25℃)**

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30μA	5	-----	V
Forward Current	IF	-----	-----	30	mA
Power Dissipation	Pd	-----	-----	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 / Lens color :

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

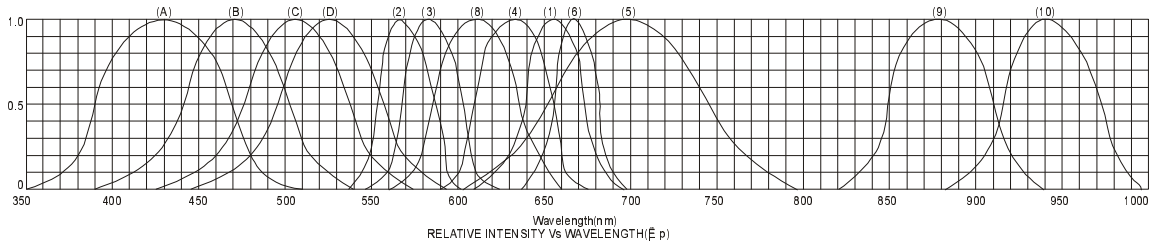
■ **Description:**

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

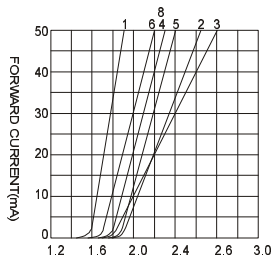
Emitting Color	Dice Material	Peak Wave Length(λ <sub>P</sub> )	Spectral Line halfwidth(λ <sub>1/2</sub> )	Forward Voltage(VF) Unit:V		Luminous Intensity (I <sub>v</sub> ) Unit:mcd
				Typ	Max	
S, SR Hi Red	AlGaAs,SH	660nm	20nm	1.80	2.20	15-20

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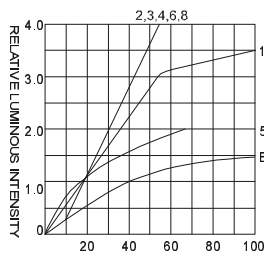
G	Green	GaP	570nm	30nm	2.20	2.50	14-18
Segment-to-Segment Luminous Intensity ratio(Iv-M)						1.5:1	



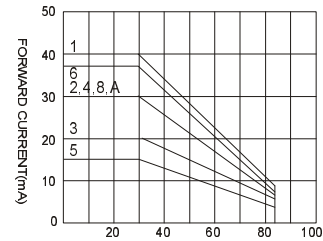
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



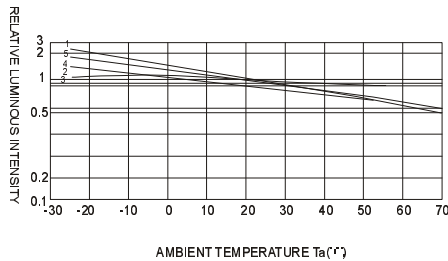
FORWARD VOLTAGE (V)  
FORWARD CURRENT VS.  
FORWARD VOLTAGE



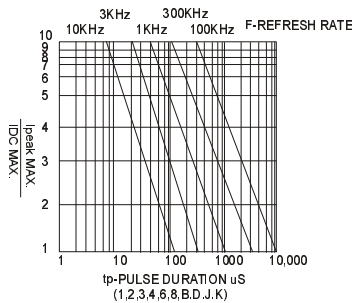
FORWARD CURRENT (mA)  
RELATIVE LUMINOUS  
INTENSITY VS. FORWARD  
CURRENT



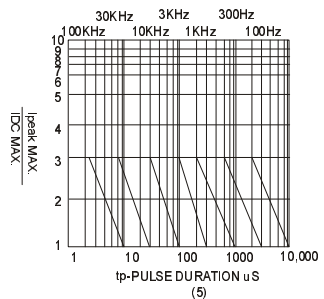
AMBIENT TEMPERATURE Ta(°C)  
FORWARD CURRENT VS.  
TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



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



tp-PULSE DURATION µS  
(5)

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NOTE:25°C,free air temperature unless otherwise specified

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