

Dongguan Houjie Keming Electronic Factory

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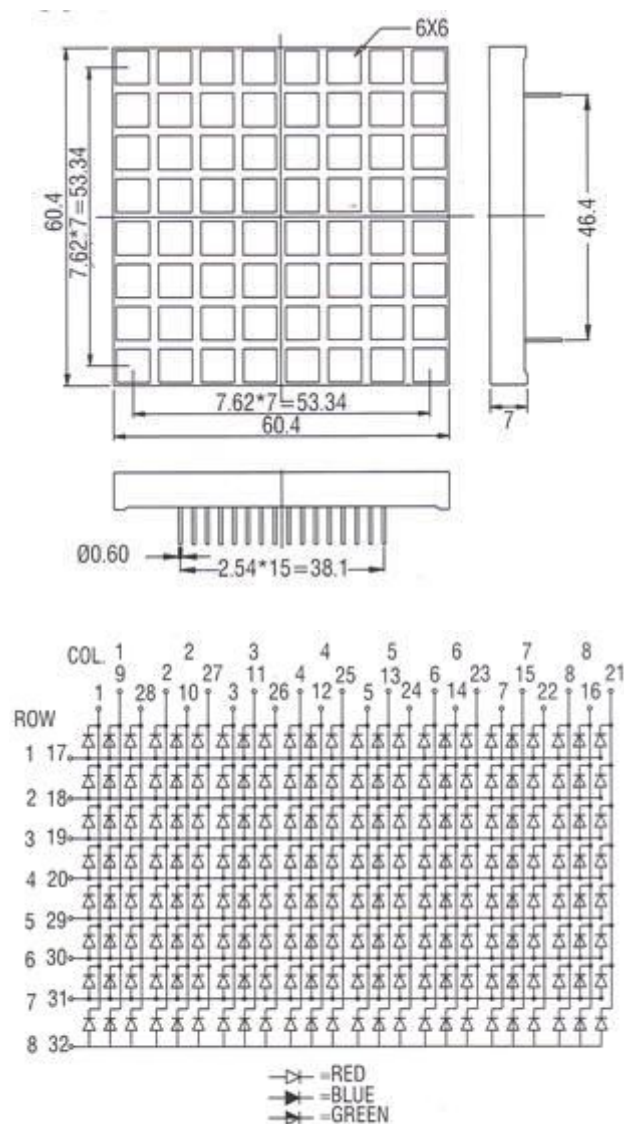
Specifications of Dot Matrix LED display

Part: KEM-5088-BRGB

Features:

Square Dot diameter	6x6mm	Epoxy color	White milky
Array	8*8	Pin configuration	Common Anode
Surface color	Black	Emitting color	Full color (RGB)

Package dimension& Internal circuit diagram



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☆ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

ITEM	Ultra red	Pure green	Blue	UNIT
Power Dissipation (Pd)	40	66	66	mW
Peak Forward Current (Ifp)	100	100	100	mA
Continuous Forward Current(If)	20	20	20	mA
Reverse Voltage (Vr)	5	5	5	V
Reverse Current(Ir)	20	20	20	Ua
Operating Temperature Range(Ta)	-35~+85			°C
Storage Temperature Range(Tstg)	-35~+85			°C
Lead Solder Temperature	260°C for 3 sec			

☆ Color Code & Chip characteristic: (Test Condition: IF=20Ma)

Emitting Color	Peak Wavelength		Forward Voltage/dot IF=20Ma (V)		Luminous Intensity/dot IF=20Ma(mcd)
	(λp)	△λ	Typ	Max	Max
Super red	625-640	20	1.9	2.1	200
Pure green	515-525	40	3.1	3.3	200
Blue	465-475	40	3.1	3.3	200

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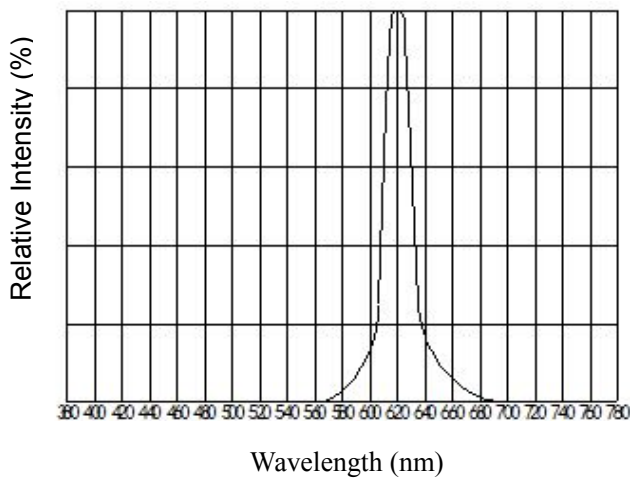
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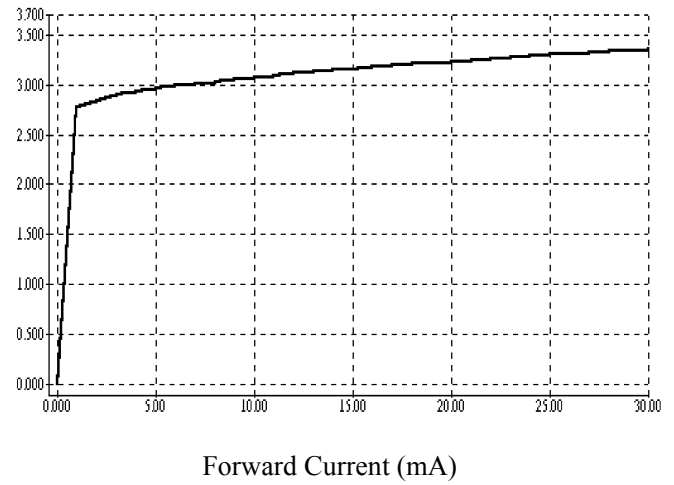
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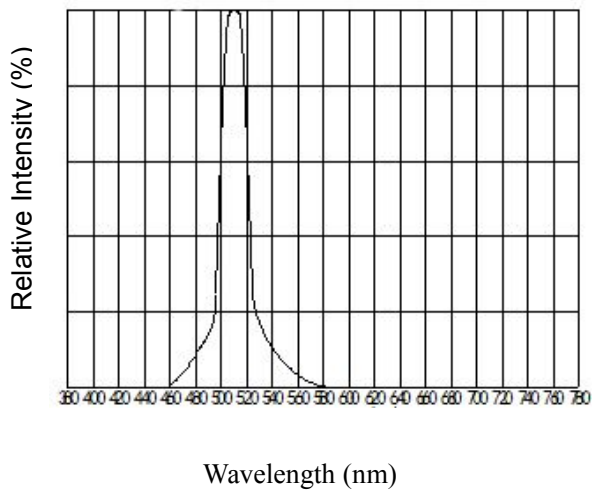
RED:



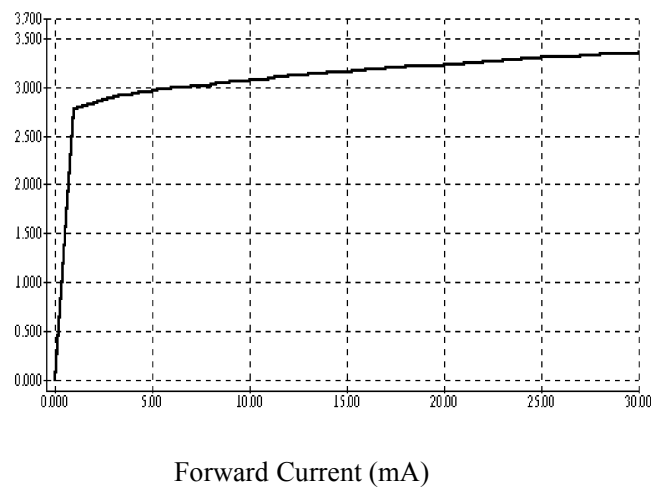
Forward Current vs. Forward Voltage



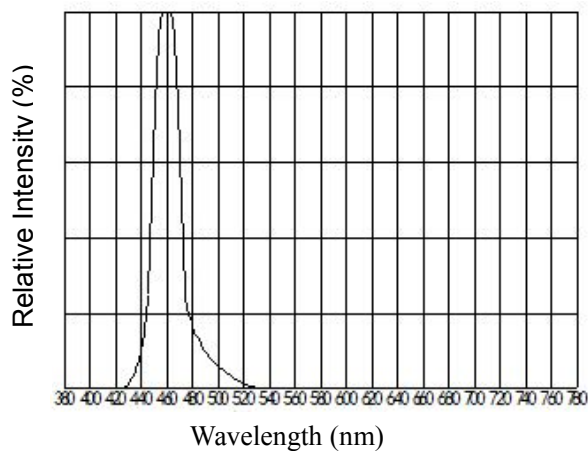
GREEN:



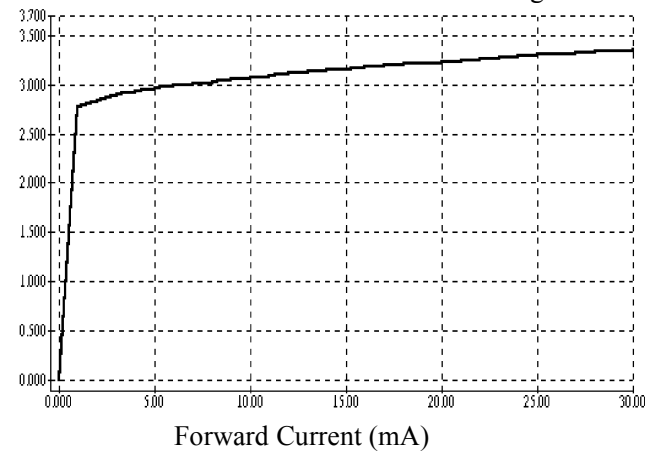
Forward Current vs. Forward Voltage



BLUE:



Forward Current vs. Forward Voltage



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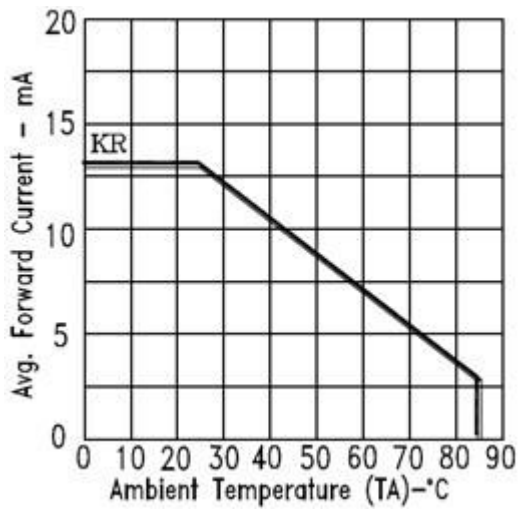
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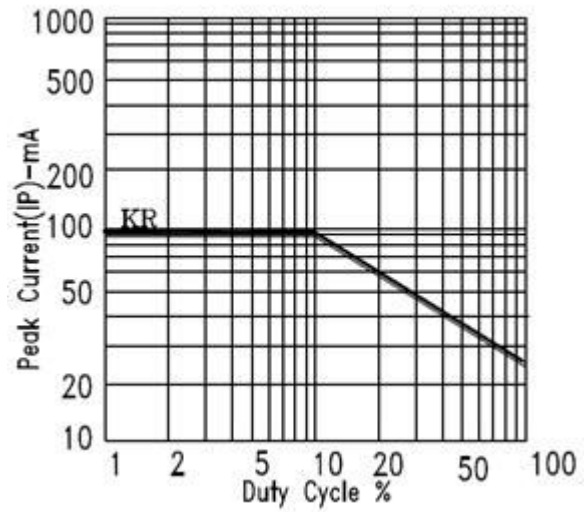
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MAX. Avg. forward current vs. Ambient Temperature

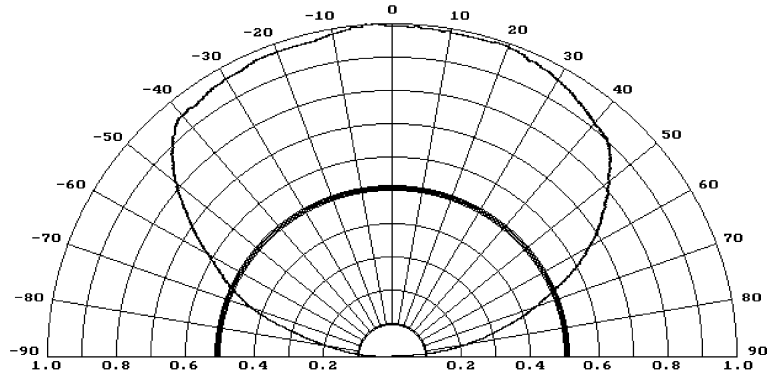


MAX. Peak current vs. Duty Cycle (%)



Refresh Rate 1KHz

Directive Characteristics



Notes:

- 1, At $T_a = 25^\circ\text{C}$
- 2, Forward Voltage at forward current = 20mA.
- 3, Peak forward current at 1/10 Duty-Cycle, 0.1ms Pules.

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