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Fairchild Semiconductor MV8041

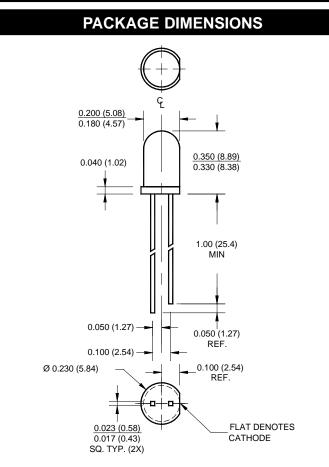
For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



FAIRCHILD

SEMICONDUCTOR

SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear



NOTES:

- 1. Dimensions for all drawings are in inches (mm).
- 2. Lead spacing is measured where the leads emerge from
- the package. 3. Protruded resin under the flange is 1.5 mm (0.059") max.

SUPER RED MV8041 MV8042 MV8043

FEATURES

- Popular T-1 3/4 package
- Super high brightness suitable for outdoor applications
- · Solid state reliability
- Water clear optics
- Standard 100 mil. lead spacing



MV804X

DESCRIPTION

This T-1 3/4 super bright LED has a viewing angle of 45° for concentrated light output. The MV804X series is made with an AllnGaP LED that emits red light at 640 nm. It is encapsulated in a water clear epoxy lens package.

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)					
Parameter	Symbol	Rating	Unit		
Operating Temperature	T _{OPR}	-40 to +100	°C		
Storage Temperature	T _{STG}	-40 to +100	°C		
Lead Soldering Time	T _{SOL}	260 for 5 sec	°C		
Continuous Forward Current	I _F	30	mA		
Peak Forward Current	1_	160	mA		
(f = 1.0 KHz, Duty Factor = 1/10)	IF IF	100			
Reverse Voltage	V _R	5	V		
Power Dissipation	PD	85	mW		





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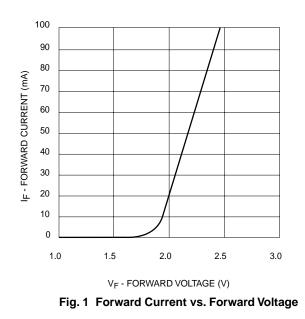
 SUPER RED
 MV804X

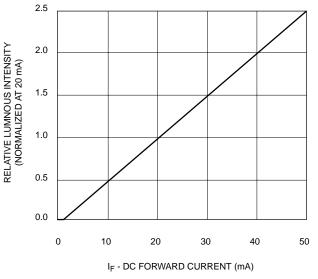
 MV8041
 MV8042

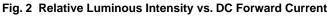
 MV8043
 MV8043

Part Number	MV8041	MV8042	MV8043	Condition
Luminous Intensity (mcd)				I _F = 20mA
Minimum	160	250	400	
Typical	240	370	600	
Forward Voltage (V)				I _F = 20mA
Maximum	2.8	2.8	2.8	
Typical	2.1	2.1	2.1	
Peak Wavelength (nm)	640	640	640	I _F = 20mA
Spectral Line Half Width (nm)	20	20	20	I _F = 20mA
Viewing Angle (°)	45	45	45	$I_F = 20 mA$

TYPICAL PERFORMANCE CURVES











SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear

SUPER RED MV8041 MV8042 MV8043

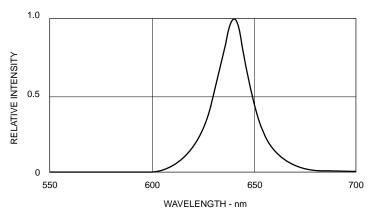
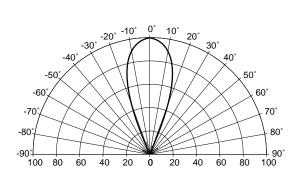


Fig. 3 Relative Intensity vs Peak Wavelength



MV804X

REL. LUMINOUS INTENSITY (%)
Fig. 4 Radiation Diagram

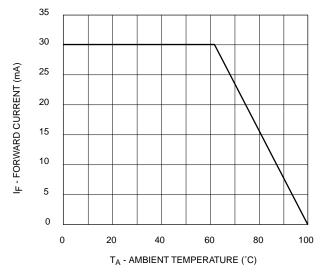


Fig. 5 Current Derating Curve





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