Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Fairchild Semiconductor MV8B01

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

Distributor of Fairchild Semiconductor: Excellent Integrated System Limited

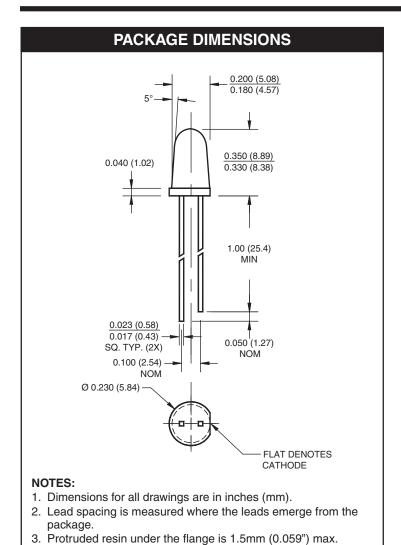
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Datasheet of MV8B01 - LED BLUE CLEAR 5MM ROUND T/H



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

Blue MV8B01





DESCRIPTION

This T-1 3/4 super bright LED has a moderate viewing angle of 20° for concentrated light output. It is made with GaN/SiC technology LED that emits blue light at 430 nm. It is encapsulated in a water clear epoxy lens package.

FEATURES

- Popular T-1 3/4 package
- Solid state reliability
- Water clear optics
- Standard 100 mil. lead spacing

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ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-40 to +85	°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 (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	135	mW

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)			
Part Number	MV8B01A	Condition	
Luminous Intensity (mcd)			
Minimum	300	I _F = 20 mA	
Typical	450		
Forward Voltage (V)			
Typical	3.8	I _F = 20 mA	
Maximum	4.5		
Wavelength (nm)			
Peak	430	I _F = 20 mA	
Dominant	465		
Spectral Line Half Width (nm)	65	I _F = 20 mA	
Viewing Angle (°)	20	I _F = 20 mA	

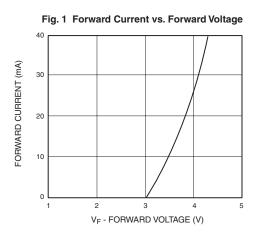




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TYPICAL PERFORMANCE CURVES



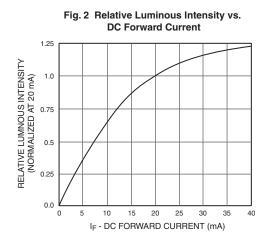


Fig. 3 Relative Intensity vs. Wavelength

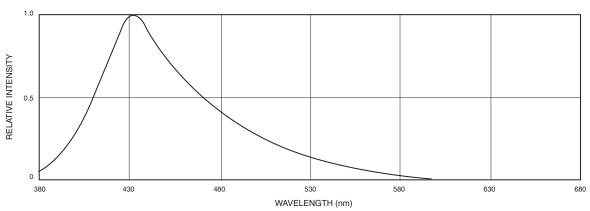


Fig. 4 Radiation Diagram

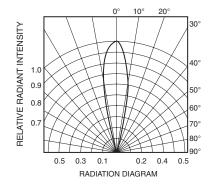
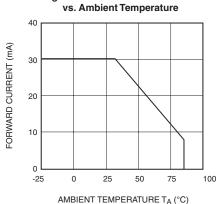


Fig. 5 Maximum Forward Current





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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.