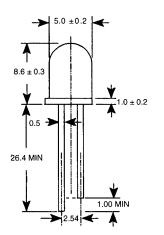


SEMICONDUCTOR

SUPER BRIGHT T-1¾ (5 mm) LED LAMPS

SUPER RED MV8140 CLEARSUPER RED MV8190 DIFFUSEDSUPER RED MV8141 CLEARSUPER RED MV8191 DIFFUSED

PACKAGE DIMENSIONS

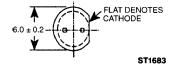




These T-1¾ super bright LEDs have a moderate 40° or 45° viewing angle. The MV8190/1 are 40° and the MV8140/1 are 45°. All are made with GaA1As LEDs on a GaA1As substrate. They are encapsulated in an epoxy package. The MV8140/1 have a water clear lens while the MV8190/1 have a red diffused lens.

FEATURES

- Outstanding material efficiency.
- Popular T-1¾ package.
- Low drive current.
- Solid state reliability.
- Super high brightness.
- Standard 1 mil. lead spacing.



NOTES:

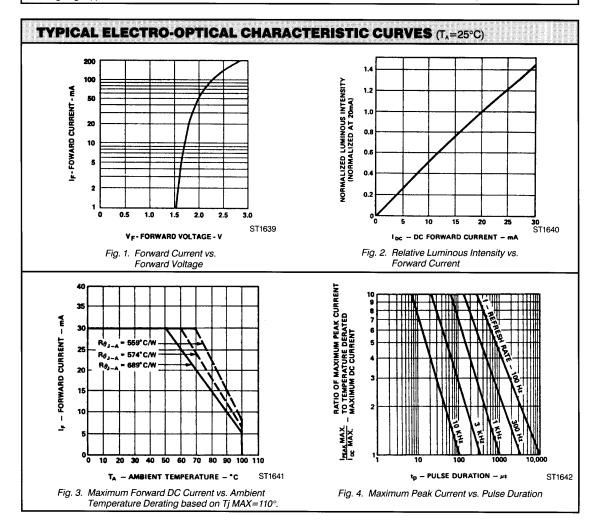
- 1. ALL DIMENSIONS ARE IN MM.
- 2. LEAD SPACING IS MEASURED WHERE THE LEADS EMERGE FROM THE PACKAGE.
- 3. PROTRUDED RESIN UNDER THE FLANGE IS 1.5 mm (0.059") MAX.

ABSOLUTE MAXIMUM RATING (T_=25°C Unless Otherwise	• Specified)
DC forward current (I,)	
Operating temperature range	
Storage temperature range	
Lead soldering time	
Peak forward current (I,) (at f=1.0 KHz, Duty factor= 1/10)	200 mA
Power dissipation (P _d)	



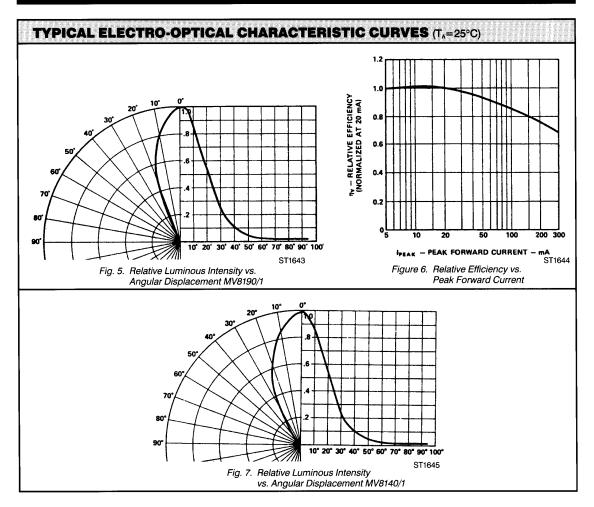
SUPER BRIGHT T-1¾ (5 mm) LED LAMPS

PART NUMBER	MV8190	MV8191	MV8140	MV8141	TEST CONDITIONS
Luminous intensity (mcd)					I₌=20 mA
minimum	63	100	120	250	······
typical maximum	100	200	220	370	
Forward voltage (V _F)					I _F =20 mA
minimum			1.5		
typical			1.7		
maximum			2.4		
Peak wavelength (nm)			660		l _⊧ =20 mA
Spectral line half width (nm)			40		I _F =20 mA
Reverse breakdown voltage (V _R)			5		I _F =10 μA
Viewing angle (°)	45	45	40	40	I _F =20 mA





SUPER BRIGHT T-1¾ (5 mm) LED LAMPS





SUPER BRIGHT T-1 3/4 (5mm) LED LAMPS

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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.

Product Folder - Fairchild P/N MV8141 - Super Red Diffused Super Bright T-1 3/4 (5 mm) LED Lamps

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Find productsProducts groupsAnalog and MixedSignalDiscreteInterfaceLogicMicrocontrollersNon-VolatileMemoryOptoelectronicsMarkets andapplicationsNew productsProduct selection andparametric searchCross-referencesearch	MV8141 Super Red Diffused Super Bright T-1 3/4 (5 mm) LED Lamps Contents General description Features Testing conditions Product status/pricing/packaging General description These T-1 3/4 super bright LEDs have a moderate 40° or 45° viewing angle. The MV8190/1 are 40° and the MV8140/1 are 45°. All are made with an GaA1As LEDs on a GaA1As substrate. They are encapsulated in an epoxy package. The MV8140/1 have a water clear lens while the MV8190/1 have a red diffused lens.	Datasheet Download this datasheet PDF e-mail this datasheet [E- This page Print version	Related Links Request samples Dotted line How to order products Dotted line Product Change Notices (PCNs) Dotted line Support Dotted line Distributor and field sales representatives Dotted line Quality and reliability Dostrad line Dotted line Dotted line Distributor and field sales representatives Dotted line Dotted line Dotted line Dotted line
my Fairchild	Features		
company	Outstanding material efficiency		

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Testing conditions

Popular T-1 3/4 package
Low drive current
Solid state reliability
Super high brightness
Standard 1 mil. lead spacing

• $V_F @ I_F = 20 \text{ mA}; I_V @ I_F = 20 \text{ mA}$

Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MV8141	Full Production	\$0.113	Purchase	T-1 3/4	BOX
MV8141.A4R0	Full Production	\$0.12	Purchase	T-1 3/4	BOX
MV8141.A1R0	Full Production	\$0.12	Purchase	T-1 3/4	BOX
MV8141.A3R0	Full Production	\$0.12	Purchase	T-1 3/4	BOX
MV8141A.A4R0	Full Production	\$0.12	Purchase	T-1 3/4	BOX

* Fairchild 1,000 piece Budgetary Pricing

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