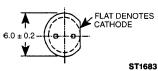


SUPER BRIGHT T-1¾ (5 mm) LED LAMPS

SUPER RED MV8140 CLEAR SUPER RED MV8190 DIFFUSED SUPER RED MV8141 CLEAR SUPER RED MV8191 DIFFUSED

PACKAGE DIMENSIONS

5.0 ±0.2 8.6 ± 0.3 1.0 ± 0.2 1.00 MIN



DESCRIPTION

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:

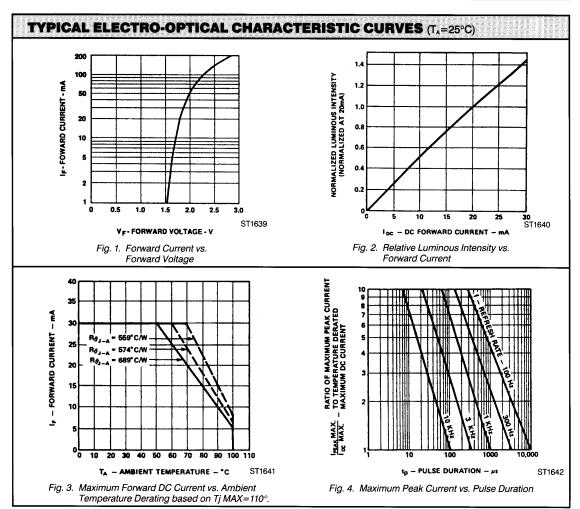
- 1. ALL DIMENSIONS ARE IN MM.
- 2. LEAD SPACING IS MEASURED WHERE THE LEADS EMERGE FROM THE PACKAGE.
- 3. PROTRUDED RESIN UNDER THE FLANGE IS 1.5 mm (0.059") MAX.

ABSOLUTE MAXIMUM RATING (TA=25°C Unles	ss Otherwise Specified)
DC forward current (I ₁)	40 mA
Operating temperature range	
Storage temperature range	40°C to +100°C
Lead soldering time	5 seconds @ 260°C
(at $1/16$ inch from the bottom of lamp)	
Peak forward current (I ₁)	200 mA
(at f=1.0 KHz, Duty factor= 1/10)	
Power dissipation (P _d)	
Recommended operating current (I, Rec)	20 mA



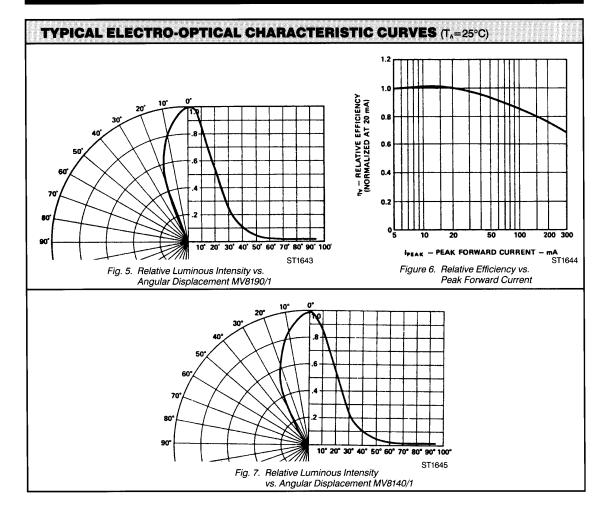
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ELECTRO-OPTICAL CHARACTERISTICS (T _A = 25°C Unless Otherwise Specified)					
PART NUMBER	MV8190	MV8191	MV8140	MV8141	TEST CONDITIONS
Luminous intensity (mcd)					I _F =20 mA
minimum	63	100	120	250	
typical	100	200	220	370	
maximum					
Forward voltage (V _F)					I₌=20 mA
minimum			1.5		
typical			1.7		
maximum			2.4		
Peak wavelength (nm)			660		I _F =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.