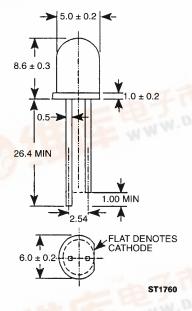


SUPER BRIGHT T-1¾ (5 mm) LED LAMPS

SUPER RED MV8102 CLEAR SUPER RED MV8103 CLEAR SUPER RED MV8104 CLEAR

PACKAGE DIMENSIONS



NOTES:

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

DESCRIPTION

These T-1¾ super bright LEDs have a narrow 20° viewing angle for concentrated light output. The MV8101/2/3/4 are made with GaAlAs LEDs on a GaAlAs substrate. They are all encapsulated in an epoxy package and have water clear lenses.

FEATURES

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

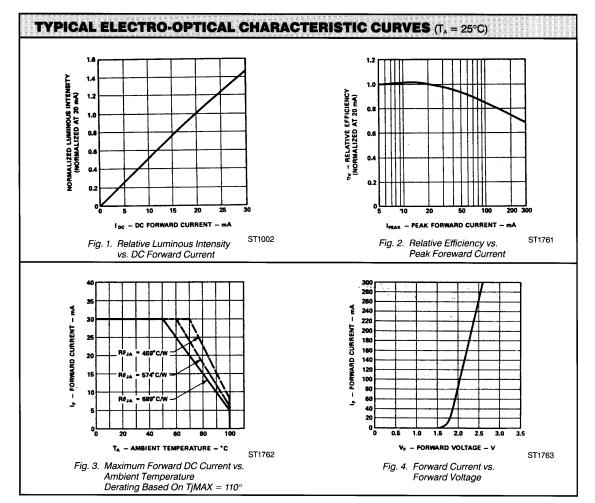
ABSOLUTE MAXIMUM RATING (T _A = 25°C Unless Otherwise Specified)				
DC forward current (I _i)	40 mA			
Operating temperature range	40°C to +85°			
Storage temperature range	40°C to +100°C			
Lead soldering time	5 seconds @ 260°C			
Peak forward current	200 mA			
(at f=1.0 KHz, Duty factor=1/10)				
Power dissipation (P _d)	110 mW			
Recommended operating current (I, Rec)	20 mA			



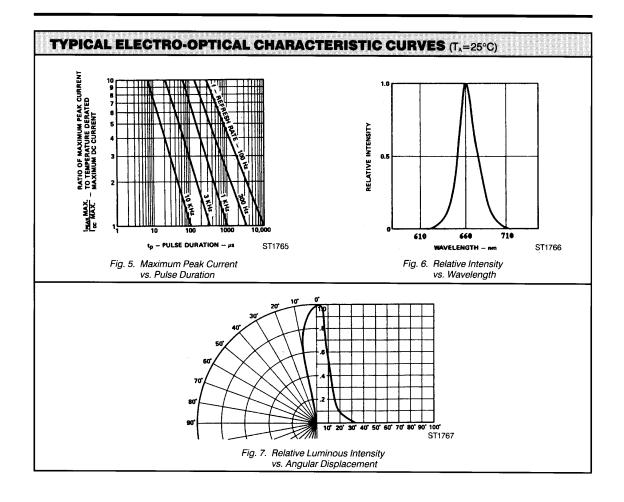


SUPER BRIGHT T-1¾ (5 MM) LED LAMPS

PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Luminous intensity					
MV8102	250	370		mcd	$I_F=20 \text{ mA}$
MV8103	630	940		mcd	$I_F=20 \text{ mA}$
MV8104	1000	1500		mcd	l₅=20 mA
Forward voltage	1.5	1.7	2.4	V	I _F =20 mA
Peak wavelength		660		nm	I _F =20 mA
Spectral line half width		40		nm	I _F =20 mA
Reverse breakdown voltage		5	-	V	I _R =10 μA
Viewing angle	-	20		degree	l₅=20 mA



SUPER BRIGHT T-1¾ (5 mm) LED LAMPS





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

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 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.