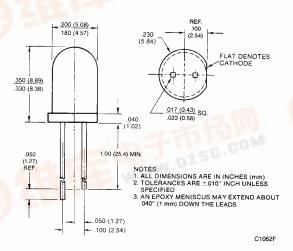


HIGH CONTRAST T-13/4 SOLID STATE LAMPS

HIGH EFFICIENCY RED (ORANGE) MV6151
YELLOW MV6351

HIGH EFFICIENCY GREEN MV6451 Aigaas Red MV6951

PACKAGE DIMENSIONS



DESCRIPTION

This White Diffused family of T-1¾ lamps gives maximum ON/OFF contrast in high ambient lighting levels. The family features Orange, AlGaAs Red (Dark Red), Yellow and High Efficiency Green as well as High Efficiency Red, which here is Orange. The family exhibits wide viewing angle intended for direct view.

FEATURES

- Excellent ON/OFF contrast
- Pale tint, diffused
- AlGaAs Red plus 3 bright colors: High Efficiency Red/Orange, Yellow and Green
- Alternative for popular MV6X53 family
- Snap-in grommet MP52 available as separate order item

PHYSICAL CHARACTERISTICS					
TYPE	SOURCE COLOR	LENS COLOR	LENS EFFECT	APPLICATION	
MV6151	High Efficiency Red	Pale Orange Diffused	Orange Diffused	Direct View	
MV6351	Yellow	Pale Yellow Diffused	Yellow Diffused	Direct View	
MV6451	High Efficiency Green	Pale Green Diffused	Green Diffused	Direct View	
MV6951	AlGaAs Red	Pale Pink Diffused	Red Diffused	Direct View	





HIGH CONSTRAST T-13/4 **SOLID STATE LAMPS**

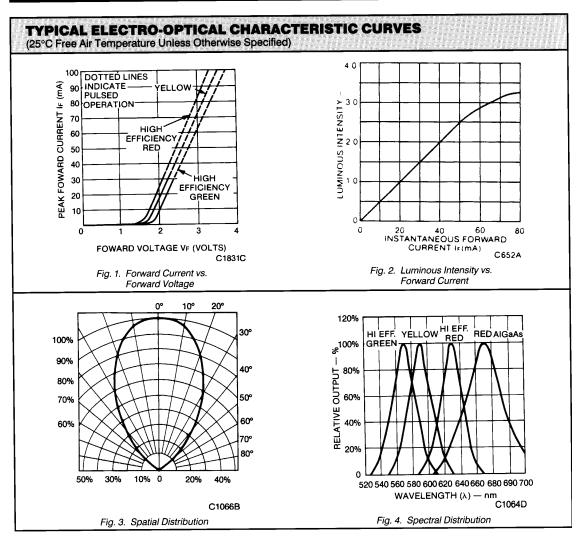
PARAMETER		SYMBOL	MV6151	MV6351	MV6451	MV6951	UNITS	TEST COND.	NOTES
Luminous Intensity	min. typ.	lν	3.0 12	3.0 12	3.0 12	3.0 12	mcd mcd	I _F =20 mA I _F =20 mA	-
Forward voltage	max. typ.	V _F	3.0 2.1	3.0 2.2	3.0 2.3	3.0 2.4	V	I _F =20 mA I _F =20 mA	
Peak wavelength	typ.	λ_{P}	635	585	565	650	nm	I _F =20 mA	
Reverse breakdown voltage	min.	V _{BR}	5	5	5	5	V	I _F =100μA	
Total viewing angle between half luminous points typ.		20%	70	70	70	70	degrees	I _F =20 mA	

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless Otherwise Specified)						
PARAMETER	YELLOW	HI EFF. RED RED	GREEN	UNITS	NOTES	
Power dissipation	85	120	120	mW	1	
Continuous forward current	20	35	30	mA	•	
Peak forward current (1 µs, 0.3% DF)	60	1000	90	mA		
_ead soldering time at 260° C	5	5	5	seconds	2	
Storage and operating temperatures	-55°C to +100°C		-55°C to	o +100°C	_	

NOTES

- Derate linearly from 25°C (MV6451 from 50°C) at 1.6 mW/°C.
 From a point minimum 1/16 inch (1.6 mm) from the bottom of the lamp.







HIGH CONTRAST T-1 3/4 SOLID STATE 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.