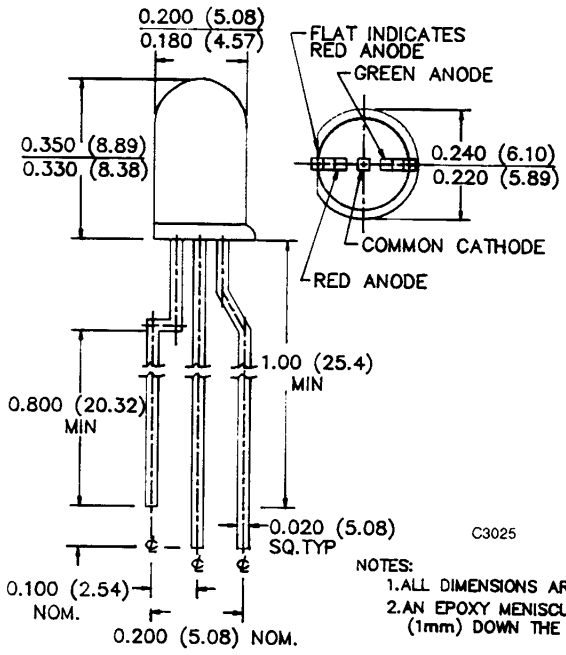
OPTOELECTRONICS

3 LEADS BICOLOR T-1¾ SOLID STATE LAMPS

HIGH EFFICIENCY GREEN/HIGH EFFICIENCY RED MV5437

PACKAGE DIMENSIONS



NOTES:
1. ALL DIMENSIONS ARE IN INCHES(mm)
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 0.040" (1mm) DOWN THE LEADS.

DESCRIPTION

The MV5437 T-1¾ lamp is a three leaded bicolor light source with a central common cathode lead.

FEATURES

- Excellent uniformity and visual appeal
- Very wide viewing angle for perfect direct view
- Increased reliability
- Radically improved die-off-center characteristics
- Improved solder heat durability
- 4-state; Green, Red, Amber, OFF.
- TTL compatible

QT OPTOELECTRONICS

BICOLOR T-1¾ SOLID STATE LAMPS

ELECTRO-OPTICAL CHARACTERISTICS (25°C Unless Otherwise Specified)

PARAMETER		SYMBOL	RED	GREEN	UNITS	TEST CONDITIONS
Luminous intensity	min.	I_V	2.0	2.0	mcd	I_F=20 mA
	typ.		6.0	6.0	mcd	I_F=20 mA
Forward voltage	max.	V_F	3.0	3.0	V	I_F=20 mA
	typ.		2.1	2.1	V	I_F=20 mA
Dominant wavelength	typ.	λ_d	630	567	nm	I_F=20 mA
Reverse breakdown	min.	V_{BR}	5.0	5.0	V	I_R=100 μA
Total viewing angle between half Luminous intensity points		2θ½	100	100	degree	I_F=20 mA

ABSOLUTE MAXIMUM RATINGS (T_A=25°C Unless Otherwise Specified)

PARAMETERS	RATING	UNITS	NOTES
Power dissipation	135	mW	1
Peak current	90	mA	
Average current	25	mA	2
Lead soldering time	5	seconds	
Storage and operating temperatures	−55°C TO +100°C		3

NOTES

1. Derate power linearly from 25°C at 1.8 mW/°C
2. Derate current linearly from 50°C at 0.5 mA/°C
3. To a point minimum 1/16 inch (1.6 mm) from the bottom lamp.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

(T_A=25°C Unless Otherwise Specified)

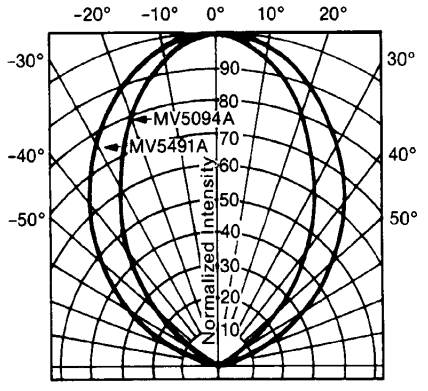


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Fig. 1. Spatial Distribution