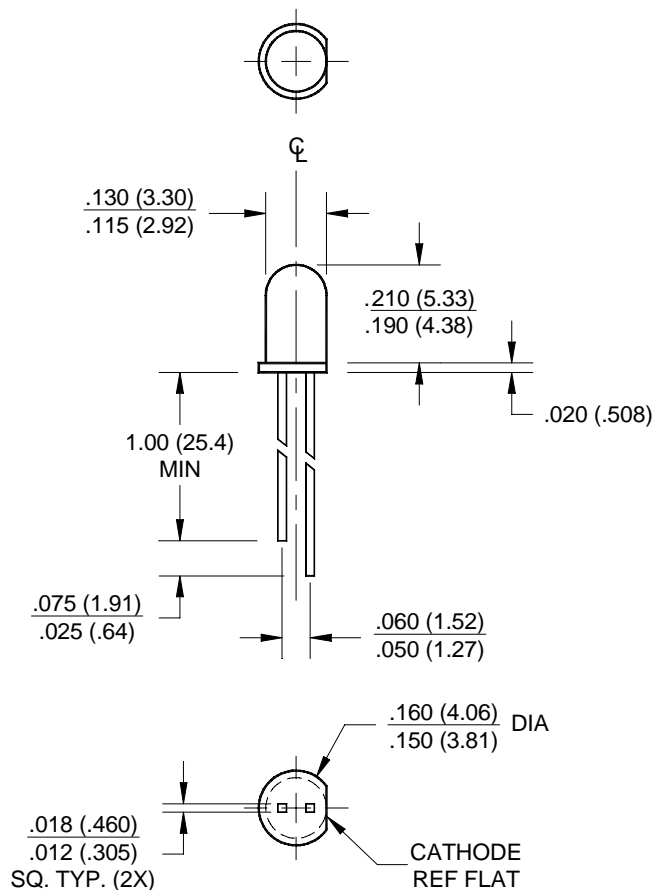


RED DIFFUSED	MV5074C
YELLOW DIFFUSED	MV5374C
HER DIFFUSED	MV5774C

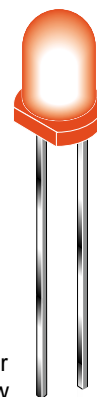
**RED DIFFUSED**      **MV5075C**  
**GREEN DIFFUSED**      **MV5474C**

## PACKAGE DIMENSIONS



## FEATURES

- Copper leads
- Solid-state reliability



## DESCRIPTION

These solid state indicators offer a variety of color selection. The High Efficiency Red, Green and Yellow devices are made with a gallium arsenide phosphide LED on gallium phosphide substrate. All are encapsulated in epoxy packages. Their small size (approximately T-1 size), good viewing angle, and small square leads contribute to their versatility as all purpose indicators.

**ABSOLUTE MAXIMUM RATING** ( $T_A = 25^\circ\text{C}$  Unless Otherwise Specified)

Parameter	Symbol	Rating	Units
Power Dissipation Derate linearly from $25^\circ\text{C}$	$P_D$	105 -1.14	mW mW/ $^\circ\text{C}$
Continuous Forward Current (MV5374C=20 mA)	$I_F$	35	mA
Peak Forward Current - ( $\mu\text{sec}$ pulse 0.3% duty cycle) (MV5474C=90 mA) (MV5374C=60 mA)	$I_{FM}$	35	mA
Reverse Voltage ( $I_R = 100 \mu\text{A}$ )	$V_R$	5	V
Lead Soldering Time at $260^\circ\text{C}$ (See Note 1)	$T_{SOL}$	5	sec
Operating Temperature	$T_{OPR}$	-55 to +100	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 to +100	$^\circ\text{C}$

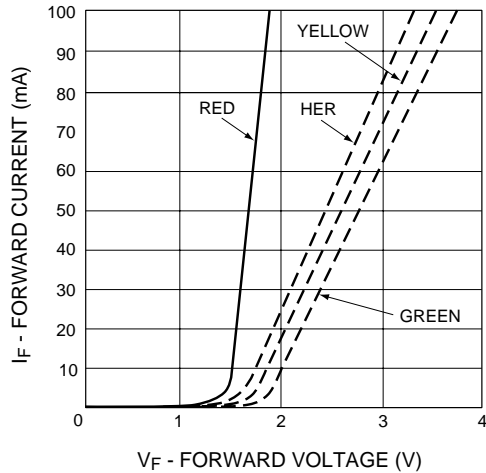
**ELECTRICAL / OPTICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$ )

Part Number	Symbol	MV5074C	MV5075C	MV5374C	MV5474C	MV5774C	Condition
Luminous Intensity (mcd)							$I_F = 20\text{mA}$
Minimum	$I_V$	0.7	0.6	1.5	1.2	1.5	
Typical		2.5	1.5	9.0	9.0	9.0	
Forward Voltage (V)							$I_F = 20\text{mA}$
Typical	$V_F$	1.6	1.6	2.1	2.2	2.0	
Maximum		2.0	2.0	3.0	3.0	3.0	
Spectral Line Half Width (nm)		20	20	35	35	45	$I_F = 20\text{mA}$
Peak Wavelength (nm)	$\lambda_p$	660	660	585	565	635	$I_F = 20\text{mA}$
Reverse Current ( $\mu\text{A}$ )							$V_R = 5.0\text{V}$
Maximum		100	100	100	100	100	
Viewing Angle (Total) ( $^\circ$ )	$2\theta$ 1/2	70	90	90	90	90	See Fig. 3

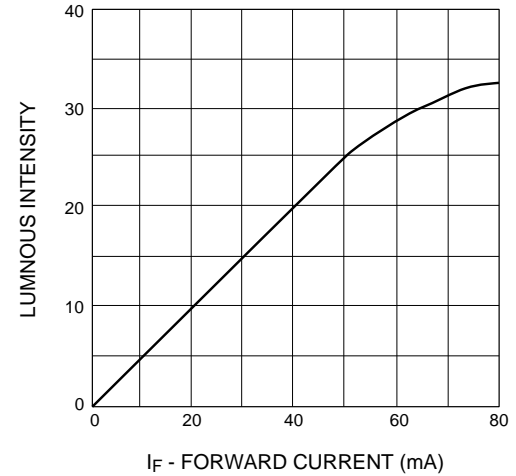
1. The leads of the device were immersed in molten solder at  $260^\circ\text{C}$ , to a point 1/16 inch (1.6 mm) from the body of the device per MIL-S-750, with a dwell time of 5 seconds.

**TYPICAL PERFORMANCE CURVES** ( $T_A = 25^\circ\text{C}$ )

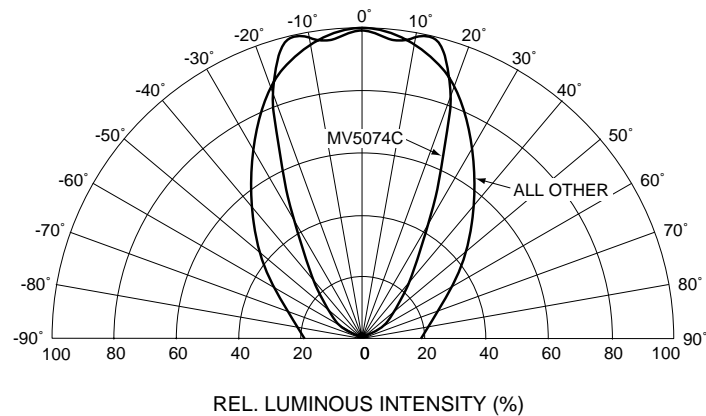
**Fig. 1 Forward Current vs. Forward Voltage**



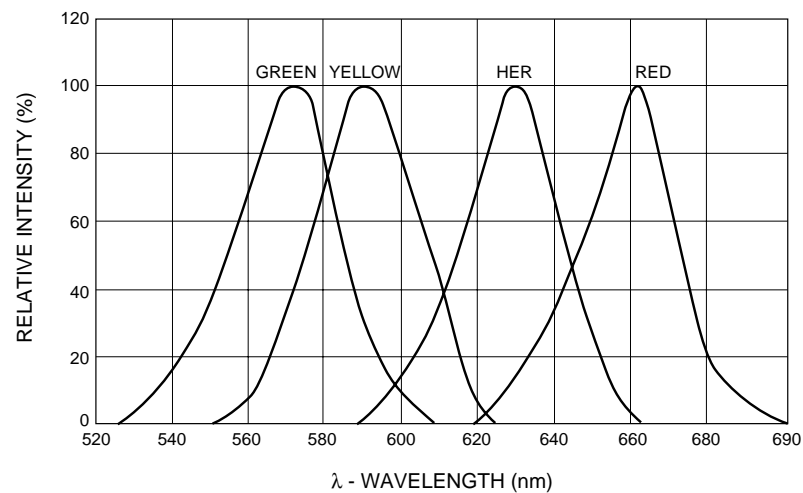
**Fig. 2 Luminous Intensity vs. Forward Current**



**Fig. 3 Spatial Distribution**



**Fig. 4 Relative Intensity vs. Peak Wavelength**



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