

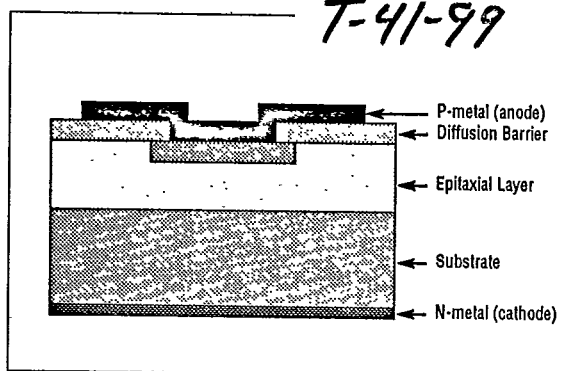
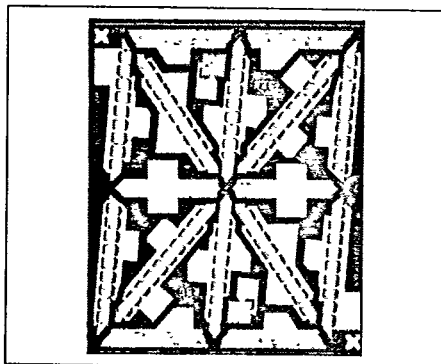
**SIEMENS**

# RM-86A

## Mask-Diffused GaAsP

## Monolithic LED

PART NO. 2680-0114

**DESCRIPTION**

Siemens RM-86A is a mask-diffused GaAsP monolithic light-emitting diode. With a bright and uniform 655 nm emission, this device is ideal for display applications.

**MATERIAL**

Epitaxial Layer:  $\text{GaAs}_{1-x}\text{P}_x : \text{Te}$   
 Substrate:  $\text{GaAs} : \text{Si}$  or  $\text{GaAs} : \text{Te}$   
 Metalizations: Anode Aluminum  
 Cathode Gold-Germanium

**Dimensions**

(center to center): Height 0.089"  
 Width 0.069"  
 Thickness 0.010"

**TYPICAL DEVICE PARAMETERS**

|                                                            |           |                    |                     |
|------------------------------------------------------------|-----------|--------------------|---------------------|
| Forward I-V Characteristics                                | $V_{F3}$  | 1.63 V             | @ 20 mA             |
|                                                            | $V_{F2}$  | 1.60 V             | @ 10 mA             |
|                                                            | $V_{F1}$  | 1.42 V             | @ 100 $\mu\text{A}$ |
| Reverse I-V Characteristics                                | $V_{R1}$  | -23.0 V            | @ -10 $\mu\text{A}$ |
| Peak EL Wavelength                                         | $\lambda$ | 655 nm             | @ 20 mA             |
| Spectral Half-Width                                        | FWHM      | 40 nm              | @ 20 mA             |
| Luminous Intensity<br>(Device does not have<br>AR coating) | LI        | 280 $\mu\text{Cd}$ | @ 10 mA             |