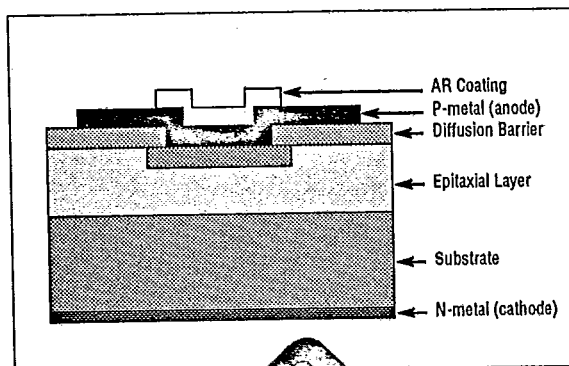
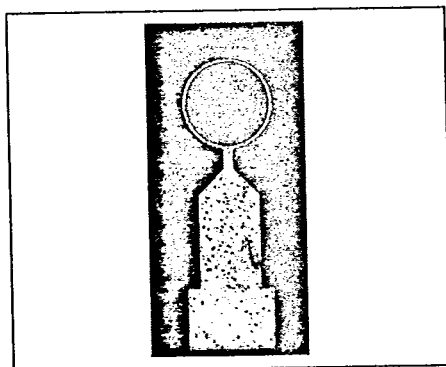


**SIEMENS**

T-41-99 IP-16A  
Mask-Diffused GaAsP LED

PART NO. 2600-7070

Custom  
Optoelectronic  
Products**DESCRIPTION**

Siemens IP-16A is a mask-diffused GaAsP light-emitting diode. With a bright and uniform 700 nm light-emitting area, this device is ideal for opto-coupler applications.

**MATERIAL**

Epitaxial Layer: GaAs<sub>1-x</sub>P<sub>x</sub>:Te  
Substrate: GaAs:Si or GaAs:Te  
Metalizations: Anode Aluminum  
Cathode Gold-Germanium

Dimensions  
(center to center): Height 570 μm  
Width 300 μm  
Thickness 200 μm

**TYPICAL DEVICE PARAMETERS**

|                                |                 |            |          |
|--------------------------------|-----------------|------------|----------|
| Forward I-V Characteristics    | V <sub>F3</sub> | 1.60 V     | @ 20 mA  |
|                                | V <sub>F2</sub> | 1.55 V     | @ 10 mA  |
|                                | V <sub>F1</sub> | 1.40 V     | @ 100 μA |
| Reverse I-V Characteristics    | V <sub>R1</sub> | -10.0 V    | @ -10 μA |
| Peak E <sub>c</sub> Wavelength | λ               | 700 nm     | @ 20 mA  |
| Spectral Half-Width            | FWHM            | 40 nm      | @ 20 mA  |
| Radiant Intensity              | RI              | 35 μW/ster | @ 10 mA  |