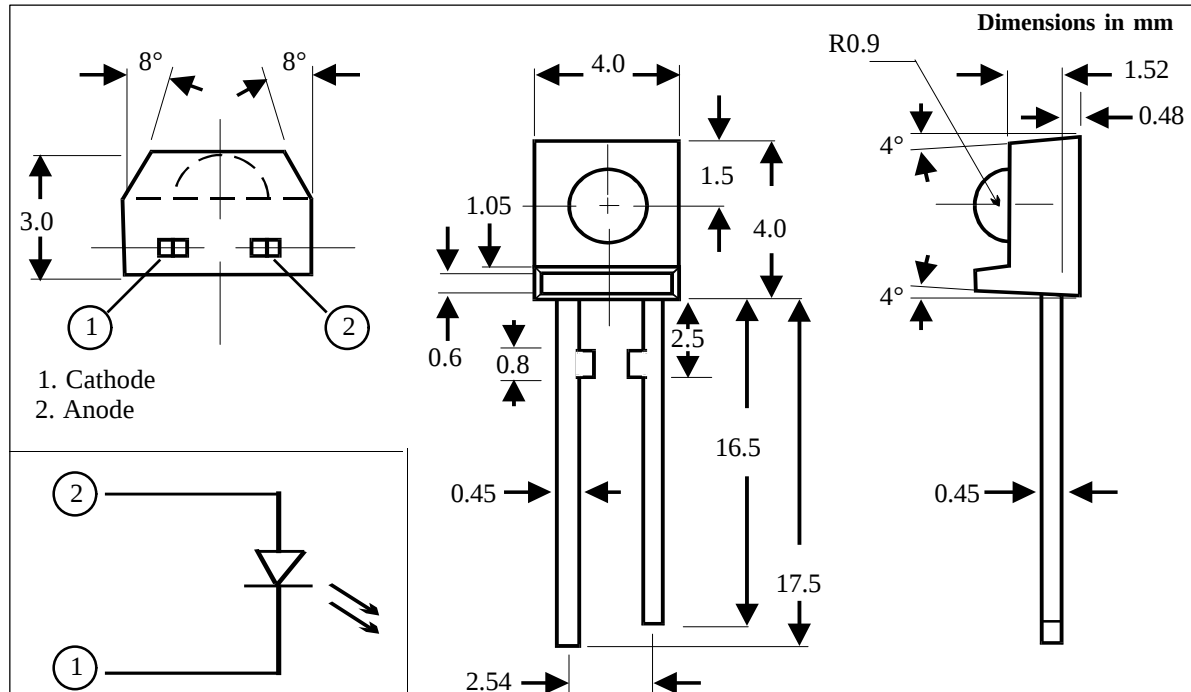


NARROW BEAM ANGLE SIDE LOOKING INFRARED EMITTING DIODE



DESCRIPTION

The IS656A is a Gallium Arsenide Infrared Emitting Diode mounted in a lateral side looking package. It can be used in conjunction with our series of Schmitt Trigger Detectors - IS657A, IS657B, IS657C, IS657D

FEATURES

- Side looking package.
- High output, Radiant Intensity :-
 $I_E = 0.5\text{mW min. at } I_F = 20\text{mA}$
- Narrow Beam Angle :- Typically $\pm 13^\circ$
- All electrical parameters are 100% tested

APPLICATIONS

- Smoke detectors
- Floppy disk drives
- Infrared applied systems
- VCRs, Video camera
- Optoelectronic switches

ABSOLUTE MAXIMUM RATINGS (25°C unless otherwise specified)

Storage Temperature	-40°C to + 85°C
Operating Temperature	-25°C to + 85°C
Lead Soldering Temperature	(1/16 inch (1.6mm) from case for 10 secs) 260°C
Forward Current	50mA
Peak Forward Current	1A (note 2)
Reverse Voltage	6V
Power Dissipation	75mW

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ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}\text{C}$ Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
	Forward Voltage (V_F)		1.2	1.4	V	$I_F = 20\text{mA}$
	Peak Forward Voltage (V_{FM})		3	4	V	$I_{FM} = 0.5\text{A}$ (note 2)
	Reverse Current (I_R)			10	μA	$V_R = 3\text{V}$
	Radiant Flux (I_E)	0.5		2.0	mW	$I_F = 20\text{mA}$
	Peak Emission Wavelength		950		nm	$I_F = 5\text{mA}$
	Spectrum Radiation Bandwidth		45		nm	$I_F = 5\text{mA}$
	Beam Emission Angle		± 13		deg.	

Note 1 Special Selections are available on request. Please consult the factory.

Note 2 Pulse width equal to or less than $100\mu\text{s}$, duty ratio = 0.01

