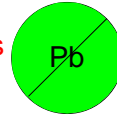


These components are RoHS compliant



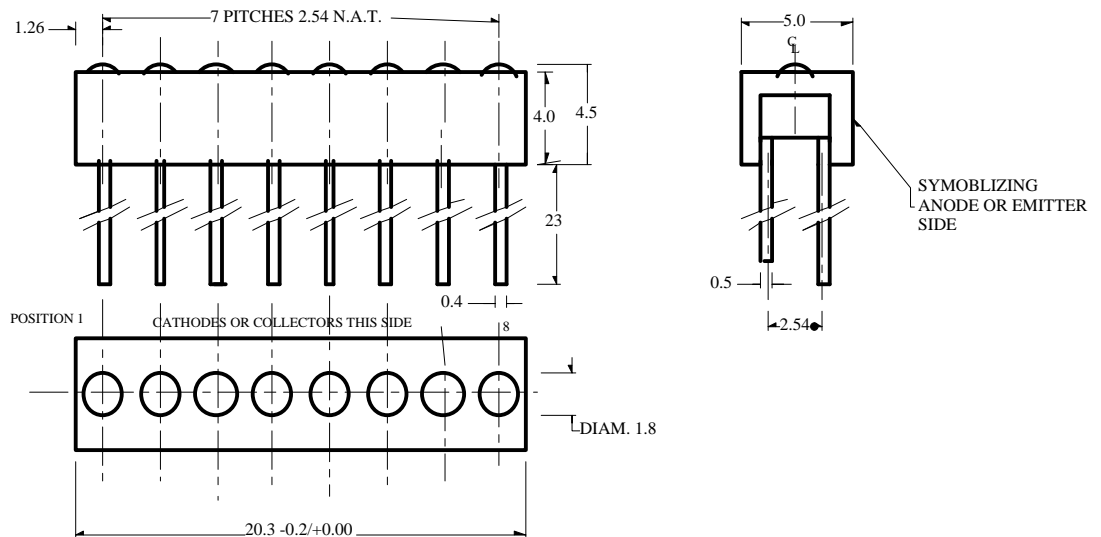
## SSA-005E&S Miniature IR Array

SSA-005 is an eight element plastic moulding designed for use with miniature T 3/4 size opto electronic components. The resulting array is of minimum size at 0.1 inch pitch in a compact housing. The housing is equally suitable for visible and infrared products.

- Black housing ideal for LED presentation.
- Visible LEDs also available.
- Infra red emitters and sensors may be narrow angle lenses or flat wide angle lenses.
- Leads are on a double 0.1 inch matrix
- Arrays will end stack maintaining 0.1" pitch.



### MECHANICAL



### ORDERING INFORMATION

PHOTO TRANSISTOR=SSA005S

INFRARED EMITTER=SSA005E

#### PLEASE NOTE

CAN BE SUPPLIED IN LESS THAN 8 WAY VERSIONS ON REQUEST WITH COUPLED PAIR SPECIFICATION.

**BEDFORD OPTO TECHNOLOGY LTD**  
**1 BIGGAR BUSINESS PARK, BIGGAR, LANARKSHIRE, ML12 6FX**

Tel: +44 (0) 1899 221221 Fax: +44 (0) 1899 221009

Website: [bot.co.uk](http://bot.co.uk) E-mail: [bill@bot.co.uk](mailto:bill@bot.co.uk)

ISS B 23.8.07

**SOLDERING TEMPERATURE** (3secs max 2mm from body)  
**ALL TYPES**

260 °C max

**SSA-005E&S**

## **INFRARED DIODES**

### **IR-Emitting Diodes in Miniature (T-3/4) Package**

PARAMETER	CONDITIONS	SYMBOL	VALUE
Viewing Angle      CQY 37N		j	±12°
Peak Wavelength		lp	950nm
Power Dissipation		Pv	170mW
Thermal Resistance Junction/ Ambient		RthJA	450K/W
Forward Current		IF	100mA
Rise Time	IF=1.5A, tp/T=0.01, tp≤10ms	Tr	400ns
Fall Time	IF=1.5A, tp/T=0.01, tp≤10ms	Tf	450ns
Junction Temperature		Tj	100°C
Storage Temperature Range		Tstg	-25...+100°C
Radiant Intensity      CQY 37N	IF=50mA, tp≤20ns	le	Min = 2.2mW/ sr Typ = 5mW/sr

## **PHOTO**

### **DETECTORS** Silicon -NPN - Phototransistors

PARAMETER	CONDITIONS	SYMBOL	VALUE
Viewing Angle      BPW 17N		j	+40° ±12°
Peak Wavelength		lp	825nm
Thermal Resistance Junction/ Ambient		RthJA	450K/W
Forward Current		IF	100mA
Rise Time	Vs=5V, Ic=5mA, RL=100W	Tr	4.8ms
Fall Time	Vs=5V, Ic=5mA, RL=100W	Tf	5.0ms
Junction Temperature		Tj	100°C
Storage Temperature Range		Tstg	-55...+100°C
Collector Light Current      BPW 17N	Ee=1mW/cm², l=950nm, Vce=5V	Ica	Min = 0.5mA Typ = 1.0mA
Collector Emitter Voltage		VCEO	32V
Collector Dark Current	VCE = 20V, E = 0	ICEO	Typ = 1nA Max = 200nA

**BEDFORD OPTO TECHNOLOGY LTD**  
**1,BIGGAR BUSINESS PARK, BIGGAR, LANARKSHIRE, ML12 6FX**  
**Tel: +44 (0) 1899 221221 Fax: +44 (0) 1899 221009**  
**Website: bot.co.uk E-mail: bill@bot.co.uk**

ISS B 23.8.07