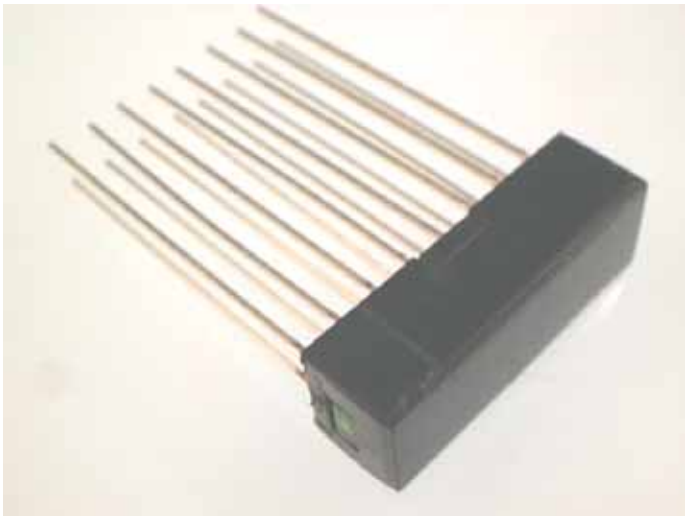
SSA-005-2 Miniature IR Array

These components are RoHS compliant

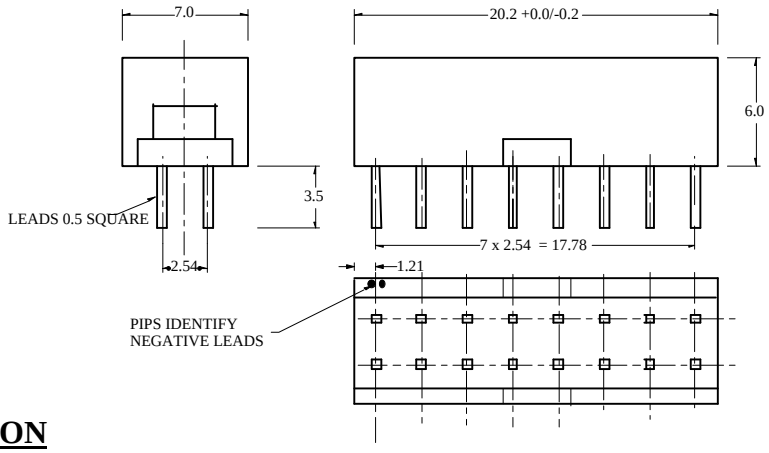
Pb

SSA-005-2 is an eight element array of silicon phototransistors or gallium arsenide infrared emitters in a polycarbonate housing. It is supplied with either wide angle flat-lensed or narrow angle components. All leads fit an 0.1" inch matrix.

- Very compact 8-element arrays with a double row of leads on an 0.1" matrix.
- End stackable.
- No dust traps to reduce opto performance.
- Smooth black polycarbonate housing transmits infrared but reduces daylight influence.



MECHANICAL



ORDERING INFORMATION

FLAT LENS PHOTOTRANSISTOR=SSA005-2A
DOME LENS PHOTOTRANSISTIR=SSA005-2B
FLAT LENS INFRARED EMITTER=SSA005-2C
DOME LENS INFRARED EMITTER=SSA005-2D

PLEASE NOTE

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

BEDFORD OPTO TECHNOLOGY LTD
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Website: bot.co.uk E-mail: bill@bot.co.uk

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SOLDERING TEMPERATURE (3secs max 2mm from body) ALL TYPES	**260** °C max

INFRARED DIODES

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

PARAMETER	CONDITIONS	SYMBOL	VALUE
Viewing Angle CQY 36N CQY 37N		φ	±55°
Peak Wavelength		λp	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≤10µs	Tr	400ns
Fall Time	IF=1.5A, tp/T=0.01, tp≤10µs	Tf	450ns
Junction Temperature		Tj	100°C
Storage Temperature Range		Tstg	-25…+100°C
Radiant Intensity CQY 36N	IF=50mA, tp≤20ns	Ie	Min = 0.7mW/sr
CQY 37N			Typ = 1.5mW/sr Min = 2.2mW/sr

PHOTO DETECTORS Silicon -NPN - Phototransistors

PARAMETER	CONDITIONS	SYMBOL	VALUE
Viewing Angle BPW 16N BPW 17N		φ	±40°
Peak Wavelength		λp	825nm
Thermal Resistance Junction/Ambient		RthJA	450K/W
Forward Current		IF	100mA
Rise Time	Vs=5V, Ic=5mA, RL=100Ω	Tr	4.8µs
Fall Time	Vs=5V, Ic=5mA, RL=100Ω	Tf	5.0µs
Junction Temperature		Tj	100°C
Storage Temperature Range		Tstg	-55…+100°C
Collector Light Current BPW 16N	Ee=1mW/cm², λ=950nm, Vce=5V	Ica	Min = 0.07mA
BPW 17N			Typ = 0.14mA Min = 0.5mA
Collector Emitter Voltage		VCEO	32V
Collector Dark Current	VCE = 20V, E = 0	ICEO	Typ = 1nA

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