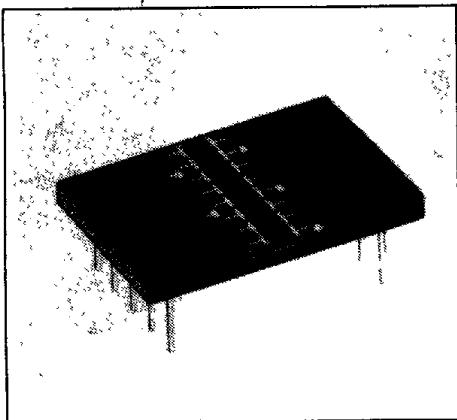


**SIEMENS****KOM 0622045****8-CHIP SILICON PHOTODIODE ARRAY  
VERY LOW DARK CURRENT**

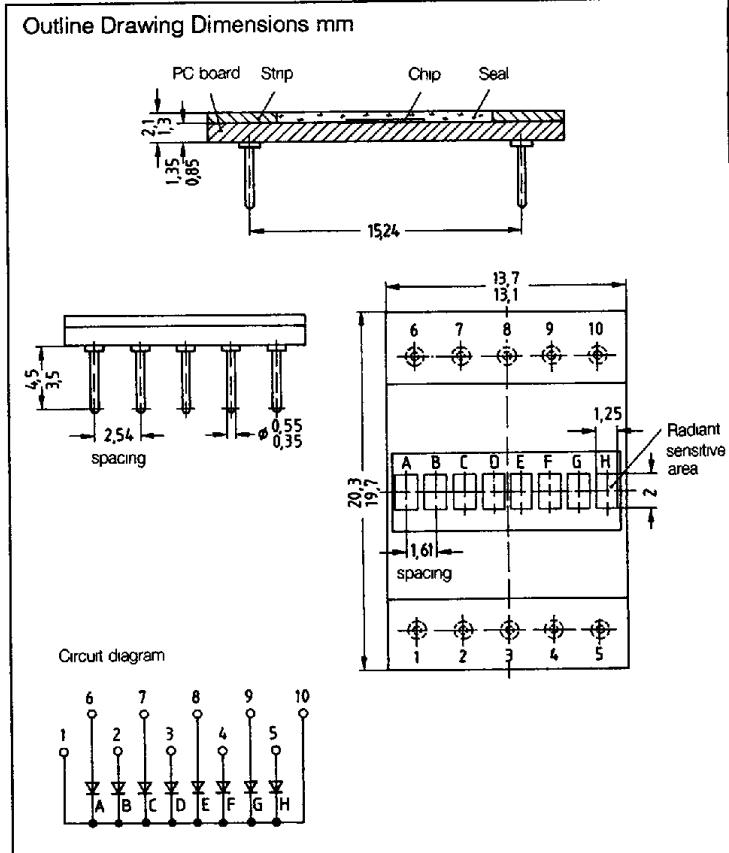
T-41-55

**DESCRIPTION**

The KOM 0622045 is an 8-chip photodiode linear array fabricated in planar technology with low reverse current. The N-Si material used results in a positive front and negative back contact. These photodetectors are suitable for diode operation (with reverse voltage) as well as for element operation.

The package consists of a PC board with pin connectors, cover frame with clear epoxy seal, 2.54 mm ('/o") lead spacing. See drawing for cathode marking.

The KOM 0622045 can be used on general-purpose PC board for scanning arrays.

**Characteristics (Single Segment)**(T<sub>A</sub>=25°C, E<sub>v</sub>=1000 lx, standard light A, T=2856 K)

Parameter	Symbol	Unit
Wavelength of Maximum		
Spectral Sensitivity	$\lambda_s$	850 nm
Spectral Sensitivity (S=10% of S <sub>max</sub> )	$\lambda$	400–1050 nm
Radiant Sensitive Area (8 elements)	A	1.25 × 2 mm
Half Angle	$\varphi$	±60 Deg
Dark Current (V <sub>R</sub> =5 V)	I <sub>R</sub>	5 ( $\leq$ 50) pA
Maximum Deviation of the Spectral Sensitivity of the Systems from the Average Value		
Open-Circuit Voltage	V <sub>O</sub>	425 ( $\geq$ 300) mV
Photocurrent (V <sub>R</sub> =5 V)	I <sub>P</sub>	17 ( $\geq$ 12) $\mu$ A
Forward Voltage (I <sub>F</sub> =10 mA)	V <sub>F</sub>	0.7 ( $\leq$ 0.8) V
Reverse Voltage (I <sub>R</sub> =5 $\mu$ A)	V <sub>R</sub>	>20 V
Capacitance (V <sub>R</sub> =0 V) (chip)	C <sub>0</sub>	235 pF