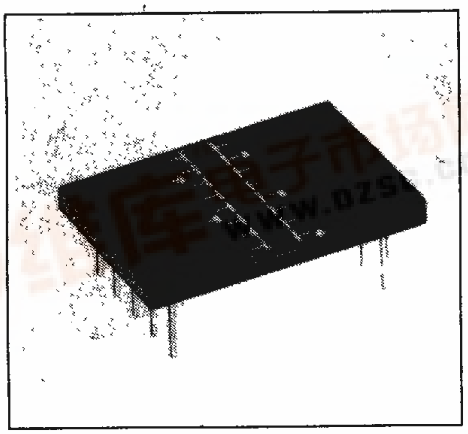
SIEMENS

KOM 0622045

8-CHIP SILICON PHOTODIODE ARRAY VERY LOW DARK CURRENT

T-41-55



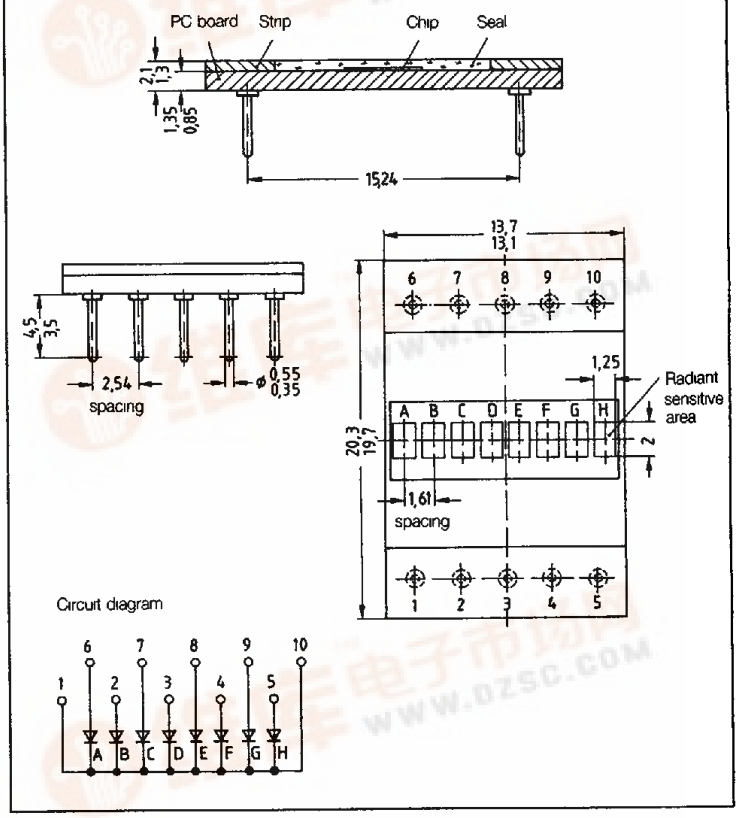
DESCRIPTION

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 (1/10") lead spacing. See drawing for cathode marking.

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

Outline Drawing Dimensions mm



Characteristics (Single Segment)

(T_A=25°C, E_V=1000 lx, standard light A, T=2856 K)

Parameter	Symbol		Unit
Wavelength of Maximum Spectral Sensitivity	λ_S	850	nm
Spectral Sensitivity (S=10% of S_{MAX})	λ	400 – 1050	nm
Radiant Sensitive Area (8 elements)	A	1 25 × 2	mm
Half Angle	φ	±60	Deg
Dark Current (V_R=5 V)	I_R	5 (≤50)	pA
Maximum Deviation of the Spectral Sensitivity of the Systems from the Average Value	Δ_S	±5	%
Open-Circuit Voltage	V_O	425 (≥300)	mV
Photocurrent (V_R=5 V)	I_P	17 (≥12)	µA
Forward Voltage (I_F=10 mA)	V_F	0.7 (≤0.8)	V
Reverse Voltage (I_R=5 µA)	V_R	>20	V
Capacitance (V_R=0 V) (chip)	C_o	235	pF