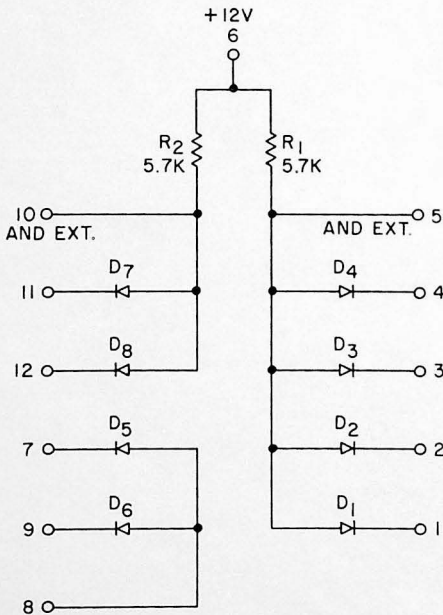


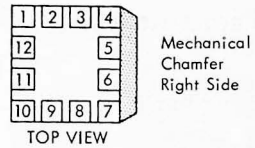
Functional Description

The AND OR Extender, AOX-3C, is used to extend the AND fan-in of either the AOI-1C, AOI-2C or DAOI-2C Modules. The AOX-3C can also be used to extend the OR fan-in of the AOI-1C.

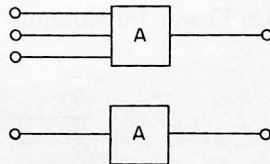
Schematic



Terminal Configuration



Block Diagram



Maximum Ratings

Diode Breakdown Voltage = 13V

Maximum Diode Current = 5 Milliamps

AOX-3C Module Functional Tests

INDIVIDUAL DEVICE PARAMETER TESTS						
TESTS	COM- PONENTS	TEST CONDITIONS	T °C	LIMITS		UNITS
				MIN	MAX	
V _F	D ₁ - D ₈	I _F = 0.10ma	25	0.51		V
V _F	D ₁ - D ₈	I _F = 1.0ma	25		0.80	V
V _F	D ₁ - D ₈	I _F = 5.0ma	25		1.0	V
BV _R	D ₁ - D ₈	I _R = 0.01ma	25	13.0		V
I _R	D ₁ - D ₈	V _R = 12.0V	75		1.0	μa
DIODE CAPACITANCE	D ₁ - D ₈	OV BIAS, f = 1 ± 0.5 mhz AC SIGNAL ≤ 50mv P - P	25		3.5	pf
END OF LIFE RESISTOR TOLERANCE	R ₁ , R ₂		25 75	-8	+8	%

Circuit Characteristics

Input requirements are the same as input requirements of the AOI-1C module

Maximum Power Supply Current Requirements

$$+12V \quad \frac{\text{ON}}{4.2\text{ma}} \quad \frac{\text{OFF}}{4.6\text{ma}}$$

Maximum Power Dissipation

$$\frac{\text{ON}}{55.0\text{mw}} \quad \frac{\text{OFF}}{64.0\text{mw}}$$

$$\text{Average Normal Power Dissipation} = \frac{\text{NOMINAL ON} + \text{NOMINAL OFF}}{2} = 40.3\text{mw}$$