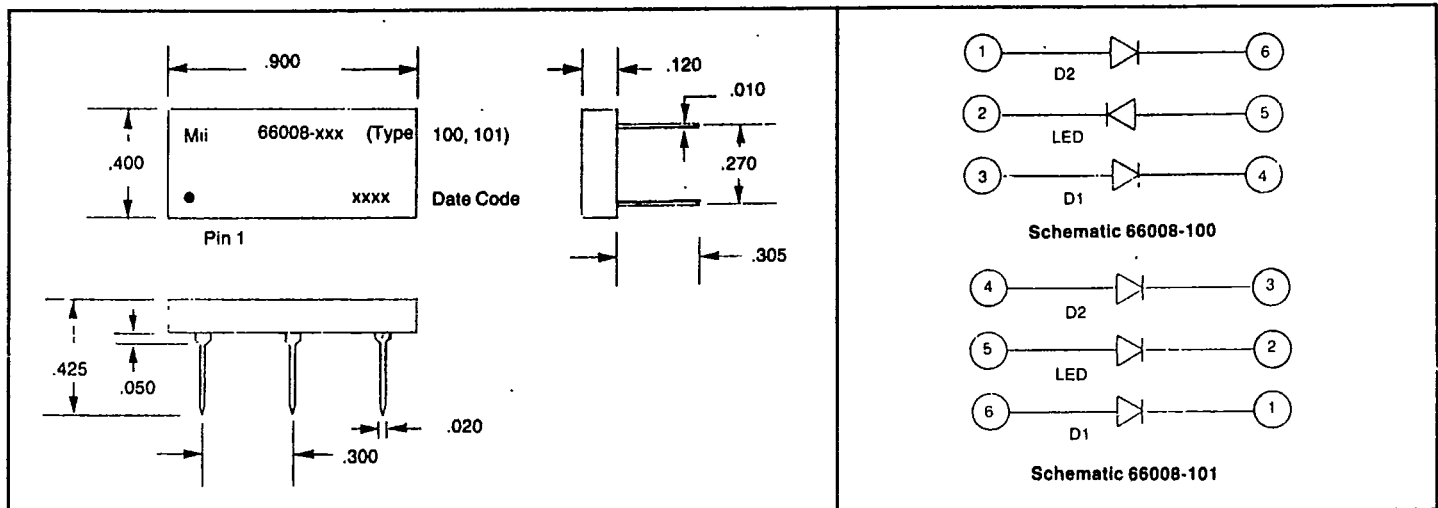


66008 SERIES OPTOTRANSFORMER



OPTOELECTRONIC PRODUCTS
DIVISION

JUNE, 1984



DESCRIPTION:

The 66008 series optotransformer consists of a pair of matched silicon photodiodes optically-coupled and spectrally matched to a single gallium arsenide infrared (IR) emitting diode. Channel-to-channel current transfer ratio can be matched to within 5%. The internal structure of these devices is designed to provide in excess of 5000 volts isolation between the input and output circuits.

The 66008 series optotransformer can be used in data processing/transmission equipment, telephone signal conditioning equipment, control circuits, and in instrumentation.

Characteristics $T_A = 25^\circ\text{C}$	MIN	TYP	MAX	UNITS
• Input Diode				
Forward Voltage V_F at $I_F = 10\text{ mA}$		1.1	1.3	V
Reverse Current I_R at $V_R = 2\text{ V}$			10	μA
• Output Diodes				
Breakdown Voltage BV_R at $I_R = 100\text{ }\mu\text{A}$	40			V
Dark Current I_D at $V_R = 20\text{ V}$		10	50	nA
• Coupled				
Output Current I_L at $I_F = 10\text{ mA}$, $V_R = 20\text{ V}$	25			μA
I_L at $I_F = 50\text{ mA}$, $V_R = 20\text{ V}$	250			μA
Isolation Voltage	5000			VDC



MICROPAC INDUSTRIES, INC.

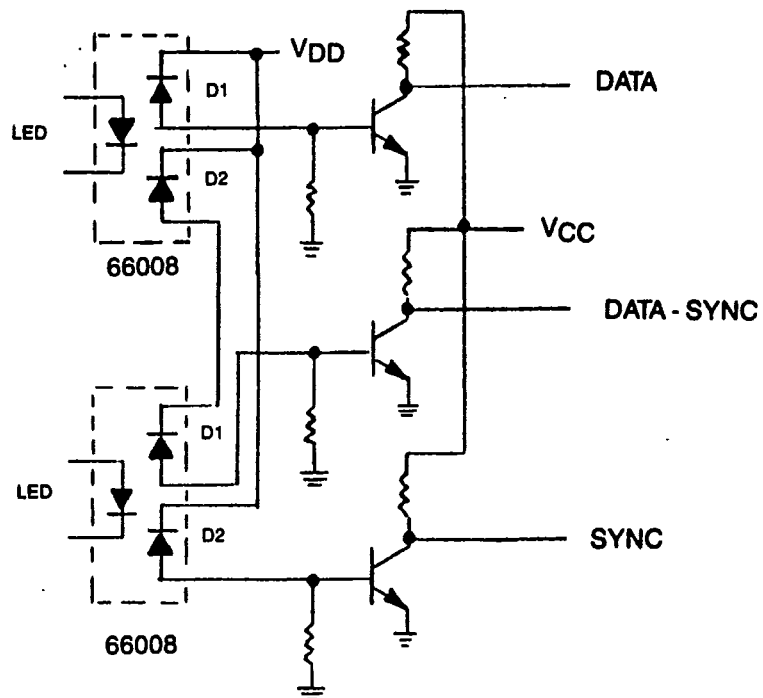
OPTOELECTRONIC PRODUCTS DIVISION

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TYPICAL OPTOTRANSFORMER APPLICATIONS

DIGITAL DATA RECEIVER



AC/DC OPTO COUPLER

