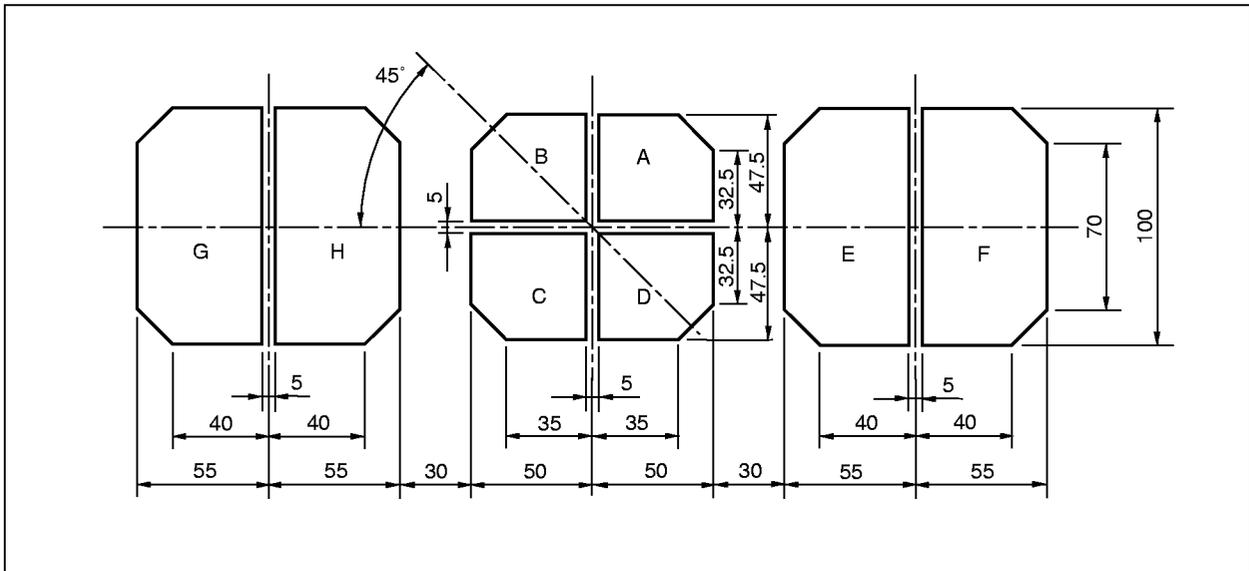
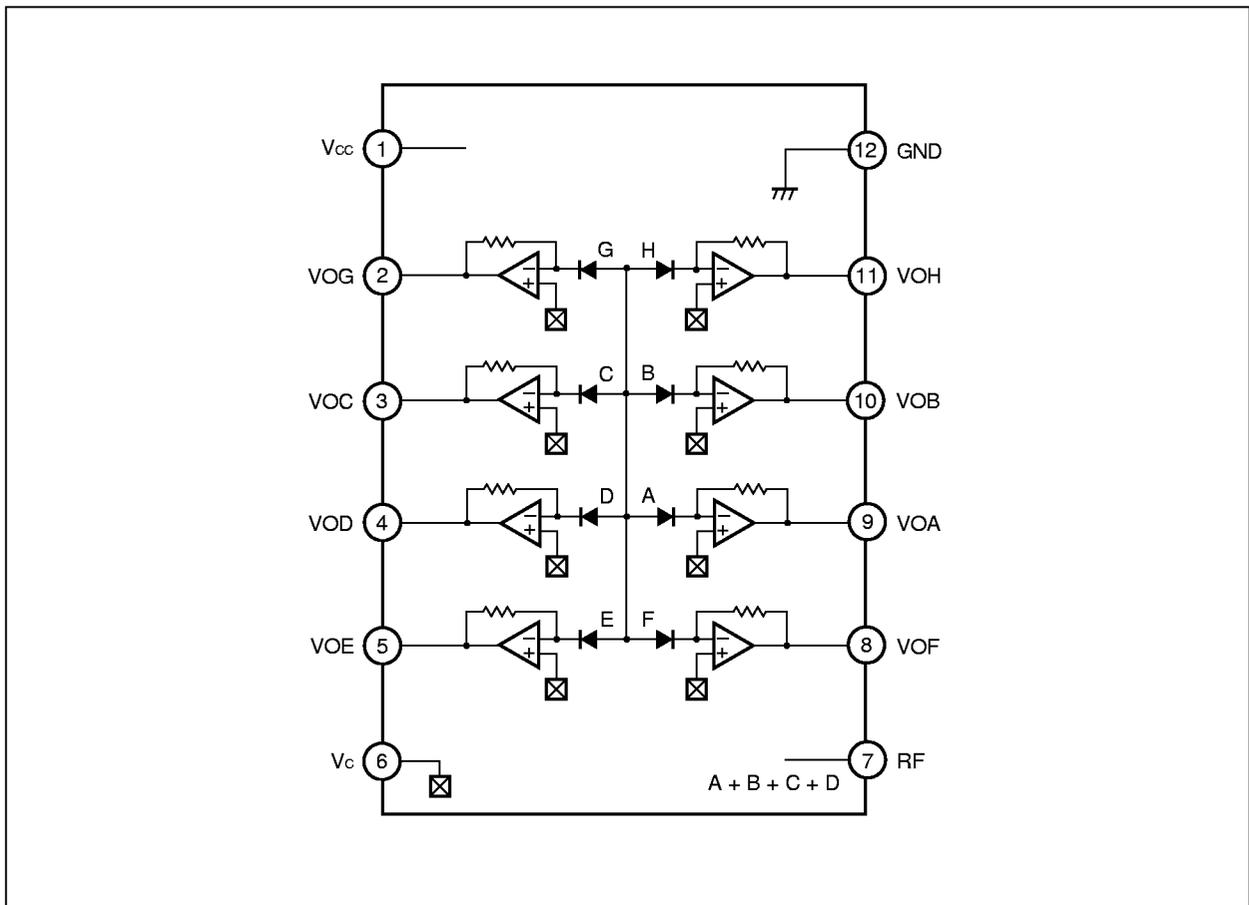


CHIP PATTERN (Unit: μm)



PIN CONNECTIONS



ABSOLUTE MAXIMUM RATINGS (T_A = 25 °C, unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Supply Voltage	V _{CC}	12	V
Power Dissipation	P _D	100	mW
Operating Ambient Temperature	T _A	-20 to +70	°C
Storage Temperature	T _{stg}	-25 to +80	°C

RECOMMENDED OPERATING CONDITIONS (T_A = 25 °C)

Parameter	Symbol	MIN.	TYP.	MAX.	Unit
Supply Voltage of V _c	V _c	1.3	2.5	V _{CC} -1.3	V
Supply Voltage	V _{CC}	4.5	5.0	6.0	V

ELECTRO-OPTICAL CHARACTERISTICS

(T_A = 25 °C, V_{CC} = 5 V, Tracking: R_L = 10 kΩ, Focus: R_L = 1 kΩ, RF: R_L = 470 Ω, C_L = 22 pF)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Circuit Current	I _{CC}	Shield a light, V _{CC} = 5 V, A to H Open		10	15	mA
Focus Output Voltage ^{*1}	V _{OF}	P _i = 10 μW, λ = 635 nm, V _{CC} = 5V, A to D	120	150	180	mV
Tracking Output Voltage ^{*1}	V _{OT}	P _i = 10 μW, λ = 635 nm, V _{CC} = 5V, E to H		500		mV
RF Output Voltage ^{*1}		P _i = 40 μW, (A+B+C+D) × 2		-1 200		mV
Offset Voltage ^{*2}	V _{OFF}	A to D	-10	0	10	mV
		E to H	-30	0	30	mV
		RF	-60	0	60	mV
Difference of Offset Voltage	ΔV _{OFF}	A+B-C-D, A+C-B-D, A+D-B-C	-10	0	10	mV
		EF-GH, EG-GH	-15	0	15	mV
Frequency Response	f	λ = 635 nm, f = 100 kHz reference, -3 dB, A to D	20	27		MHz
		λ = 635 nm, f = 100 kHz reference, -3 dB, E, F	0.5	2		MHz
		λ = 635 nm, f = 100 kHz reference, -3 dB, RF	18	24		MHz

*1 The reference voltage is V_{OFF}.

*2 The reference voltage is V_c.