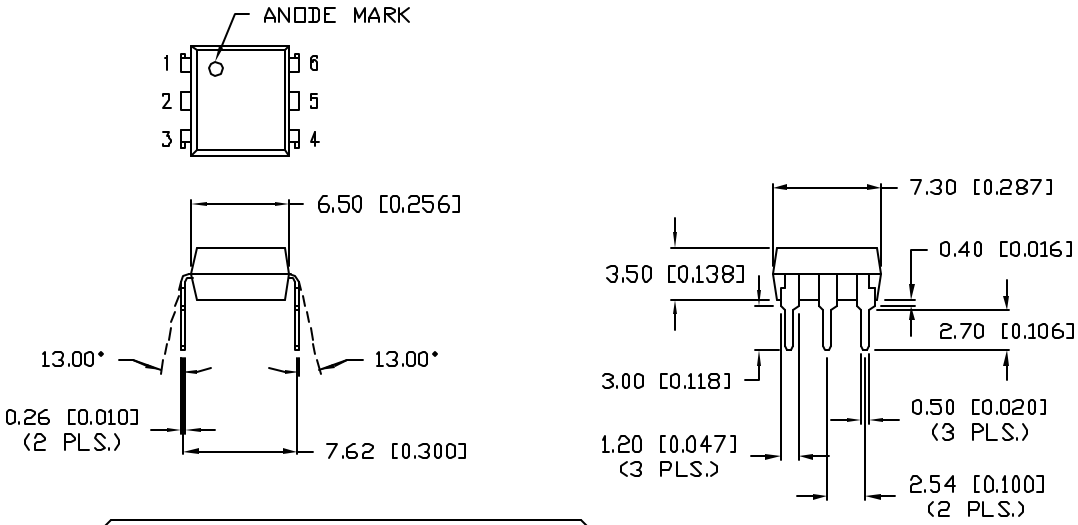
THE DATASHEET OF

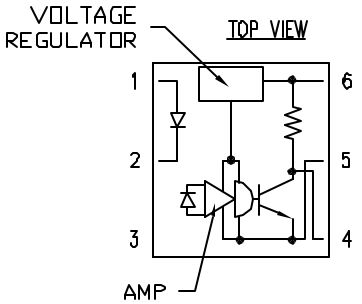
OCP-PCP116

UNCONTROLLED DOCUMENT

PART NUMBER	REV.
OCP–PCP116	A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01





NOTES:

1. ANODE
2. CATHODE
3. NO CONNECT
4. COLLECTOR
5. EMITTER
6. VOLTAGE REGULATOR

ELECTRO–OPTICAL CHARACTERISTICS (Ta=25°C)

	PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I	FORWARD VOLTAGE	V_F	I_F=20mA	–	1.2	1.4	V
	PEAK FORWARD VOLTAGE	V_{FM}	I_{FM}=0.5A	–	–	3.5	V
	REVERSE CURRENT	I_R	V_R=4V	–	–	10	µA
	TERMINAL CAPACITANCE	C_t	V=0, f=1kHz	–	30	–	pF
O	OPERATING SUPPLY VOLTAGE	V_{CC}		4.5	–	17	V
	LOW LEVEL OUTPUT VOLTAGE	V_{OL}	I_{OL}=16mA, V_{CC}=5V, I_F=0	–	0.15	0.4	V
	HIGH LEVEL OUTPUT VOLTAGE	V_{OH}	V_{CC}=5V, I_F=1mA	3.5	–	–	V
	LOW LEVEL SUPPLY CURRENT	I_{CCL}	V_{CC}=5V, I_F=0	–	1.7	3.8	mA
	HIGH LEVEL SUPPLY CURRENT	I_{CCH}	V_{CC}=5V, I_F=1mA	–	0.7	2.2	mA
T	'HIGH->LOW' THRESHOLD INPUT CURRENT	I_{FHL}	V_{CC}=5V, R_L=280 ohms	0.1	0.4	–	mA
	'LOW->HIGH' THRESHOLD INPUT CURRENT	I_{FLH}	V_{CC}=5V, R_L=280 ohms	–	0.5	1.0	mA
	HYSTERESIS	I_{FHL}/I_{FLH}	V_{CC}=5V, R_L=280 ohms	–	0.7	–	–
	ISOLATION RESISTANCE	R_{ISO}	DC500OV	$5x10^{10}$	10^{11}	–	ohm
R	'HIGH->LOW' PROPAGATION DELAY TIME	t_{PHL}	V_{CC}=5V, I_F=1mA, R_L=280 ohm	–	5	15	µS
	'LOW->HIGH' PROPAGATION DELAY TIME	t_{PLH}	V_{CC}=5V, I_F=1mA, R_L=280 ohm	–	3	9	µS
	FALL TIME	t_f	V_{CC}=5V, I_F=1mA, R_L=280 ohm	–	0.05	0.5	µS
	RISE TIME	t_r	V_{CC}=5V, I_F=1mA, R_L=280 ohm	–	0.1	0.5	µS

I=INPUT, O=OUTPUT, T=TRANSFER CHARACTERISTICS, R=RESPONSE TIME.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

	PARAMETER	SYMBOL	MAX	UNITS
I	FORWARD CURRENT	I_F	50	mA
	PEAK FORWARD CURRENT	I_{FM}	1	A
	REVERSE VOLTAGE	V_R	6	V
	POWER DISSIPATION	P_D	70	mW
O	SUPPLY VOLTAGE	V_{CC}	–0.5 TO 17	V
	OUTPUT CURRENT	I_O	50	mA
	POWER DISSIPATION	P_O	150	mW
	TOTAL POWER DISSIPATION	P_{tot}	170	mW
	ISOLATION VOLTAGE 1 MIN.	V_{ISO}	5000	V_{RMS}
	OPERATING TEMP.	T_{opr}	– 25 TO + 85	°C
	STORAGE TEMP.	T_{stg}	– 40 TO +125	°C
	SOLDERING TEMP.	T_{sol}	+260	°C
	2.0mm FROM BODY			10 SEC. MAX

I=INPUT, O=OUTPUT.

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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION −0.00 MAX.= +0.00 −DECIMAL PRECISION

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SIX PIN DIP SINGLE CHANNEL PHOTO IC PHOTOCOUPLER.

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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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