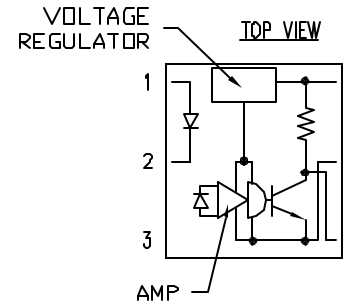
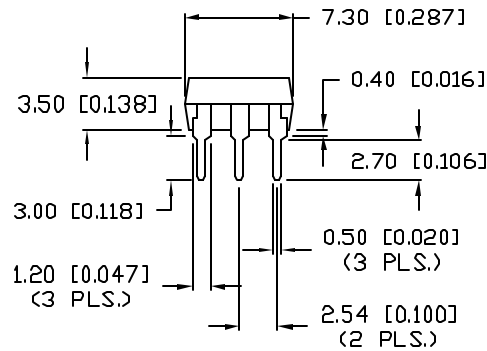
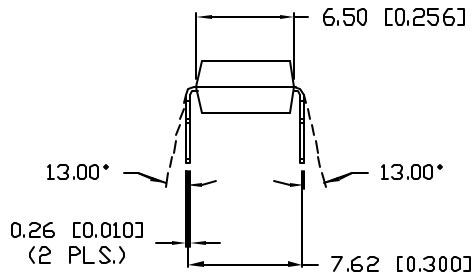
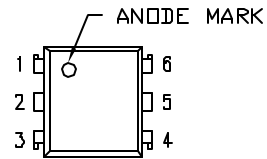


UNCONTROLLED DOCUMENT

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 <sub>F</sub>	I <sub>F</sub> =20mA	-	1.2	1.4	V
PEAK FORWARD VOLTAGE	V <sub>FM</sub>	I <sub>FM</sub> =0.5A	-	-	3.5	V
REVERSE CURRENT	I <sub>R</sub>	V <sub>R</sub> =4V	-	-	10	µA
TERMINAL CAPACITANCE	C <sub>t</sub>	V=0, f=1kHz	-	30	-	pF
O OPERATING SUPPLY VOLTAGE	V <sub>CC</sub>		4.5	-	17	V
LOW LEVEL OUTPUT VOLTAGE	V <sub>OL</sub>	I <sub>OL</sub> =16mA, V <sub>CC</sub> =5V, I <sub>F</sub> =0	-	0.15	0.4	V
HIGH LEVEL OUTPUT VOLTAGE	V <sub>OH</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =1mA	3.5	-	-	V
LOW LEVEL SUPPLY CURRENT	I <sub>CCL</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =0	-	1.7	3.8	mA
HIGH LEVEL SUPPLY CURRENT	I <sub>CCH</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =1mA	-	0.7	2.2	mA
T 'HIGH->LOW' THRESHOLD INPUT CURRENT	I <sub>FHL</sub>	V <sub>CC</sub> =5V, R <sub>L</sub> =280 ohms	0.1	0.4	-	mA
'LOW->HIGH' THRESHOLD INPUT CURRENT	I <sub>FHH</sub>	V <sub>CC</sub> =5V, R <sub>L</sub> =280 ohms	-	0.5	1.0	mA
HYSTERESIS	I <sub>FHL</sub> /I <sub>FHH</sub>	V <sub>CC</sub> =5V, R <sub>L</sub> =280 ohms	-	0.7	-	-
ISOLATION RESISTANCE	R <sub>ISO</sub>	DC5000V	5x10 <sup>10</sup>	10 <sup>11</sup>	-	ohm
R 'HIGH->LOW' PROPAGATION DELAY TIME	t <sub>PHL</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =1mA, R <sub>L</sub> =280 ohm	-	5	15	µS
'LOW->HIGH' PROPAGATION DELAY TIME	t <sub>PLH</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =1mA, R <sub>L</sub> =280 ohm	-	3	9	µS
FALL TIME	t <sub>f</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =1mA, R <sub>L</sub> =280 ohm	-	0.05	0.5	µS
RISE TIME	t <sub>r</sub>	V <sub>CC</sub> =5V, I <sub>F</sub> =1mA, R <sub>L</sub> =280 ohm	-	0.1	0.5	µS

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

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

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	MAX	UNITS
I FORWARD CURRENT	I <sub>F</sub>	50	mA
PEAK FORWARD CURRENT	I <sub>FM</sub>	1	A
REVERSE VOLTAGE	V <sub>R</sub>	6	V
POWER DISSIPATION	P <sub>D</sub>	70	mW
O SUPPLY VOLTAGE	V <sub>CC</sub>	-0.5 TO 17	V
OUTPUT CURRENT	I <sub>O</sub>	50	mA
POWER DISSIPATION	P <sub>O</sub>	150	mW
TOTAL POWER DISSIPATION	P <sub>TOT</sub>	170	mW
ISOLATION VOLTAGE 1 MIN.	V <sub>ISO</sub>	5000	V <sub>RMS</sub>
OPERATING TEMP.	T <sub>opr</sub>	-25 TO +85	°C
STORAGE TEMP.	T <sub>stg</sub>	-40 TO +125	°C
SOLDERING TEMP.	T <sub>sol</sub>	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

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