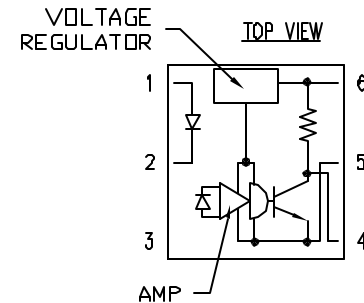
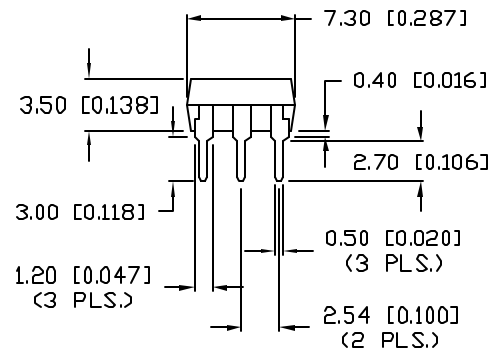
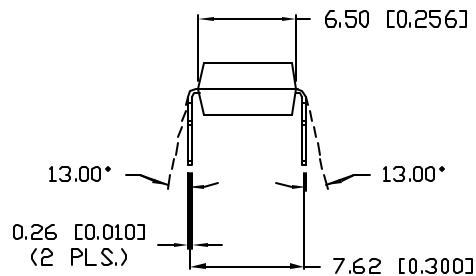
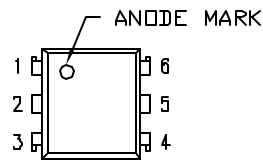


UNCONTROLLED DOCUMENT

PART NUMBER
OCP-PCP116REV.
AREV. E.C.N. NUMBER AND REVISION COMMENTS
A E.C.N. #10BRDR. & #10776.DATE
8.16.01

NOTES:

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

ELECTRO-OPTICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I FORWARD VOLTAGE	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
PEAK FORWARD VOLTAGE	V_{FM}	$I_{FM}=0.5\text{A}$	-	-	3.5	V
REVERSE CURRENT	I_R	$V_R=4\text{V}$	-	-	10	μA
TERMINAL CAPACITANCE	C_t	$V=0, f=1\text{kHz}$	-	30	-	pF
O OPERATING SUPPLY VOLTAGE	V_{CC}		4.5	-	17	V
LOW LEVEL OUTPUT VOLTAGE	V_{OL}	$I_{OL}=16\text{mA}, V_{CC}=5\text{V}, I_F=0$	-	0.15	0.4	V
HIGH LEVEL OUTPUT VOLTAGE	V_{OH}	$V_{CC}=5\text{V}, I_F=1\text{mA}$	3.5	-	-	V
LOW LEVEL SUPPLY CURRENT	I_{CCL}	$V_{CC}=5\text{V}, I_F=0$	-	1.7	3.8	mA
HIGH LEVEL SUPPLY CURRENT	I_{CCH}	$V_{CC}=5\text{V}, I_F=1\text{mA}$	-	0.7	2.2	mA
T 'HIGH->LOW' THRESHOLD INPUT CURRENT	I_{FHL}	$V_{CC}=5\text{V}, R_L=280\text{ ohms}$	0.1	0.4	-	mA
'LOW->HIGH' THRESHOLD INPUT CURRENT	I_{FLH}	$V_{CC}=5\text{V}, R_L=280\text{ ohms}$	-	0.5	1.0	mA
HYSTERESIS	I_{FHL}/I_{FLH}	$V_{CC}=5\text{V}, R_L=280\text{ ohms}$	-	0.7	-	-
ISOLATION RESISTANCE	R_{ISO}	DC5000V	5×10^{10}	10^{11}	-	ohm
R 'HIGH->LOW' PROPAGATION DELAY TIME	t_{PHL}	$V_{CC}=5\text{V}, I_F=1\text{mA}, R_L=280\text{ ohm}$	-	5	15	μs
'LOW->HIGH' PROPAGATION DELAY TIME	t_{PLH}	$V_{CC}=5\text{V}, I_F=1\text{mA}, R_L=280\text{ ohm}$	-	3	9	μs
FALL TIME	t_f	$V_{CC}=5\text{V}, I_F=1\text{mA}, R_L=280\text{ ohm}$	-	0.05	0.5	μs
RISE TIME	t_r	$V_{CC}=5\text{V}, I_F=1\text{mA}, R_L=280\text{ ohm}$	-	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), 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

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

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	$^\circ\text{C}$
STORAGE TEMP.	T_{stg}	-40 TO +125	$^\circ\text{C}$
SOLDERING TEMP.	T_{sol}	+260	$^\circ\text{C}$
2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

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REV.
APART NUMBER
OCP-PCP116

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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.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

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