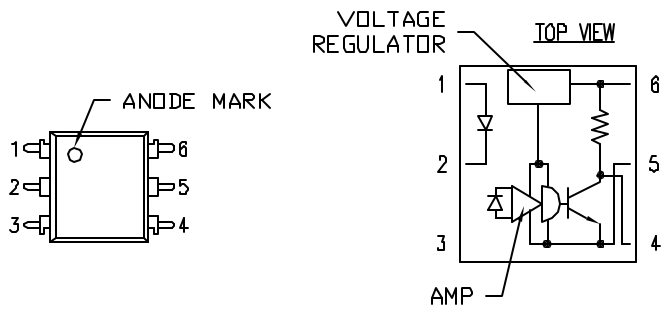


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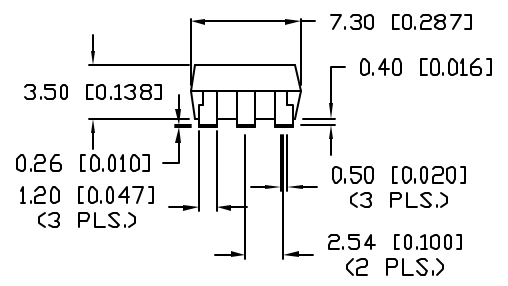
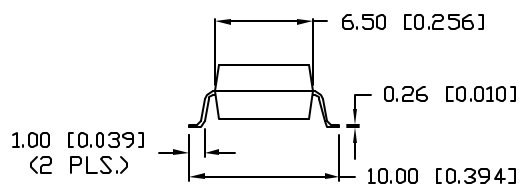
PART NUMBER
OCP-PCP116-TR

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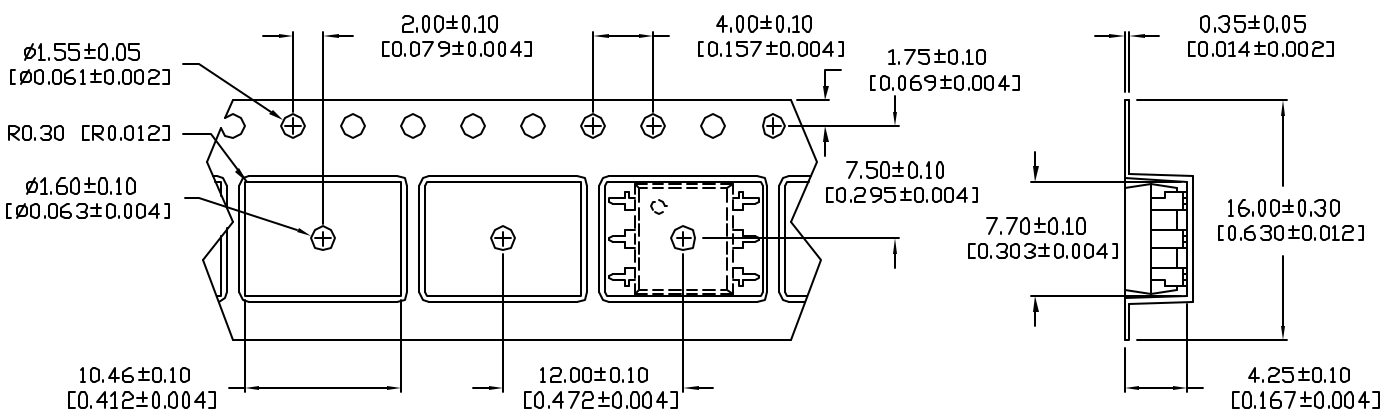
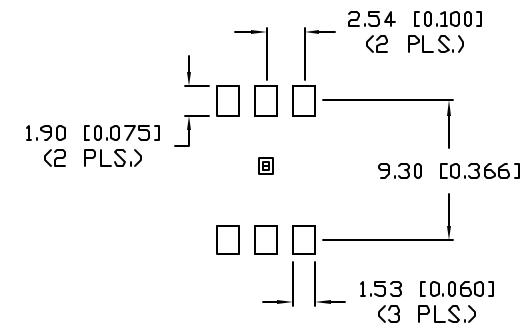
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01
B	E.C.N. #10815.	12.3.01
C	E.C.N. #1114B.	5.15.07
D	E.C.N. #11462.	12.14.07



- NOTES:
1. ANODE
 2. CATHODE
 3. NO CONNECT
 4. COLLECTOR
 5. EMITTER
 6. VOLTAGE REGULATOR, V_{CC}
 7. RESISTOR IS 15K OHMS.



RECOMMENDED SOLDER PAD LAYOUT



TAPE FEED DIRECTION →

*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.=+DECIMAL PRECISION -0.00, MAX.=+0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV. D	PART NUMBER OCP-PCP116-TR
SIX PIN SINGLE CHANNEL SURFACE MOUNT 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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PART NUMBER		REV.
OCP-PCP116-TR		D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
	SEE PAGE 1.	


ELECTRO-OPTICAL CHARACTERISTICS (T _a =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}	DC5000V	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 (T _a =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.

*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.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

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