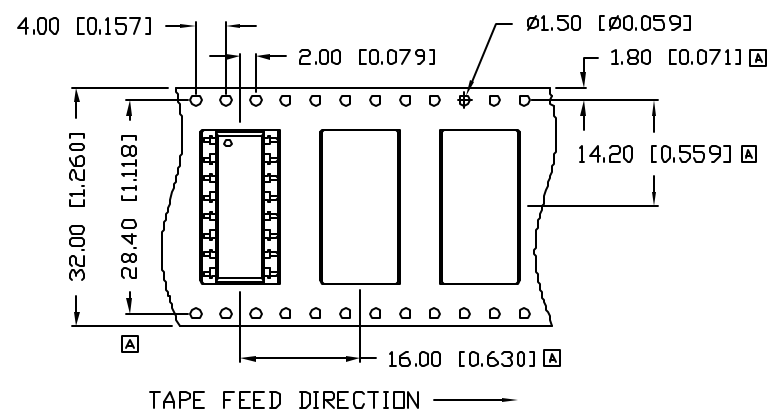
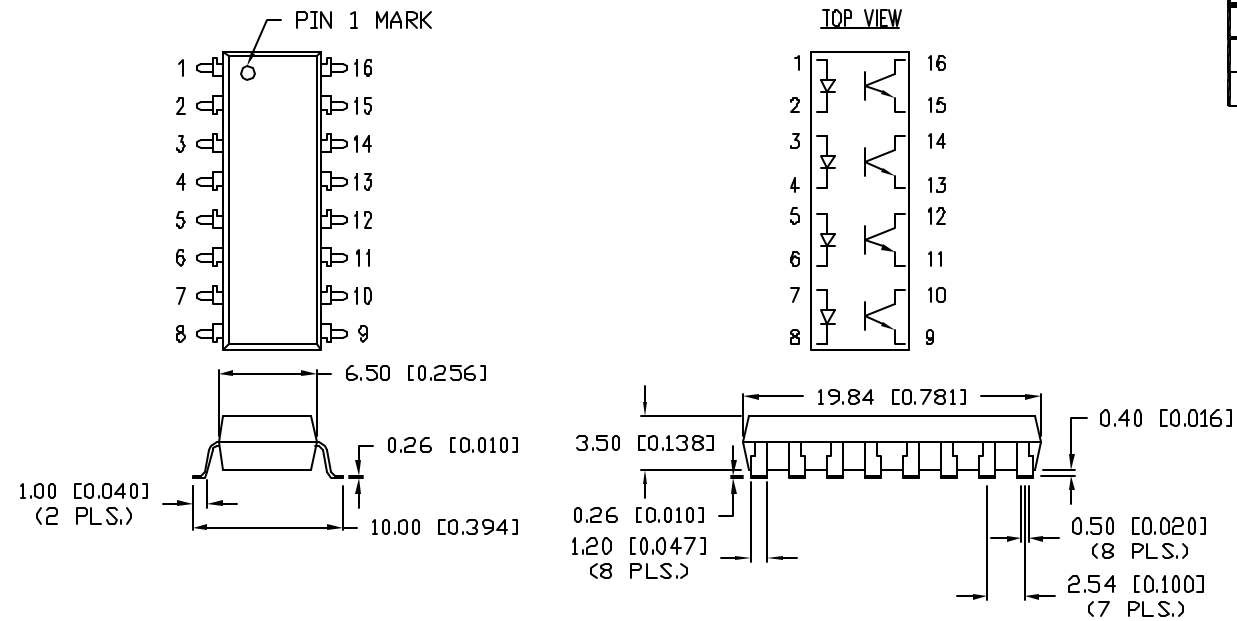


UNCONTROLLED DOCUMENT

PART NUMBER		REV.
OCP-PCT4116/E-TR1		B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11098.	2.24.04
B	E.C.N. #11148.	5.16.07



NOTES:

- 1. 1,3,5,7. ANODE/CATHODE
- 2,4,6,8. CATHODE/ANODE
- 9,11,13,15. EMITTER
- 10,12,14,16. COLLECTOR



UNCONTROLLED DOCUMENT

\*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= <sup>+DECIMAL PRECISION</sup> -0.00 <sup>MAX.= +0.00</sup> -DECIMAL PRECISION

REV.	PART NUMBER
B	OCP-PCT4116/E-TR1

**CONFIDENTIAL INFORMATION**  
 THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.



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

16 PIN SURFACE MOUNT QUAD CHANNEL PHOTOCOUPLER,  
 TRANSISTOR OUTPUT,  
 WITHOUT EXTERNAL BASE CONNECTION.

**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.

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
JC			1.6.04
			PAGE: 1 OF 2
			SCALE: N/A

UNCONTROLLED DOCUMENT

PART NUMBER		REV.
OCP-PCT4116/E-TR1		B
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
	PLEASE REFER TO PAGE 1	

ELECTRO-OPTICAL CHARACTERISTICS (T <sub>a</sub> =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
	TERMINAL CAPACITANCE	C <sub>t</sub>	V=0, f=1kHz	-	30	-	pF
Q	COLLECTOR DARK CURRENT	I <sub>CQ</sub>	V <sub>CE</sub> =20V, I <sub>F</sub> =0	-	-	10 <sup>-7</sup>	A
T	CURRENT TRANSFER RATIO	CRT	I <sub>F</sub> =±1mA, V <sub>CE</sub> =5V	60	-	600	%
	COLLECTOR-EMITTER SATURATION VOLTAGE	V <sub>CE(sat)</sub>	I <sub>F</sub> =±20mA, I <sub>C</sub> =1mA	-	0.1	0.3	V
	ISOLATION RESISTANCE	R <sub>ISO</sub>	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	-	ohm
	FLOATING CAPACITANCE	C <sub>f</sub>	V=0, f=1MHz	-	0.6	1.0	pF
	CUT-OFF FREQUENCY	f <sub>c</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	80	-	kHz
	RESPONSE TIME (RISE)	t <sub>r</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	5	20	μS
	RESPONSE TIME (FALL)	t <sub>f</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	4	20	μS


I=INPUT, Q=OUTPUT, T=TRANSFER CHARACTERISTICS.

ABSOLUTE MAXIMUM RATINGS (T <sub>a</sub> =25°C)				
	PARAMETER	SYMBOL	MAX	UNITS
I	FORWARD CURRENT	I <sub>F</sub>	50	mA
	PEAK FORWARD CURRENT	I <sub>FM</sub>	1	A
	POWER DISSIPATION	P <sub>D</sub>	70	mW
Q	COLLECTOR-EMITTER VOLTAGE	V <sub>CEO</sub>	60	V
	EMITTER-COLLECTOR VOLTAGE	V <sub>ECQ</sub>	6	V
	COLLECTOR CURRENT	I <sub>C</sub>	50	mA
	COLLECTOR POWER DISSIPATION	P <sub>C</sub>	150	mW
	TOTAL POWER DISSIPATION	P <sub>TOT</sub>	200	mW
	ISOLATION VOLTAGE 1 MIN.	V <sub>ISO</sub>	5000	V <sub>RMS</sub>
	OPERATING TEMP.	T <sub>opr</sub>	-30 TO +100	°C
	STORAGE TEMP.	T <sub>stg</sub>	-55 TO +125	°C
	SOLDERING TEMP.	T <sub>sol</sub>	+260	°C
	2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, Q=OUTPUT.

UNCONTROLLED DOCUMENT

\*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

REV.	PART NUMBER		290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw
B	OCP-PCT4116/E-TR1		
16 PIN SURFACE MOUNT QUAD CHANNEL PHOTOCOUPLER, TRANSISTOR OUTPUT, WITHOUT EXTERNAL BASE CONNECTION.		CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	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.
		DRAWN BY: jc	CHECKED BY: APPROVED BY: DATE: 1.6.04 PAGE: 2 OF 2 SCALE: N/A