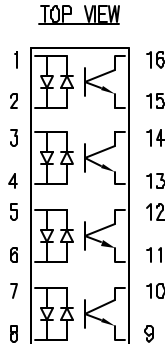
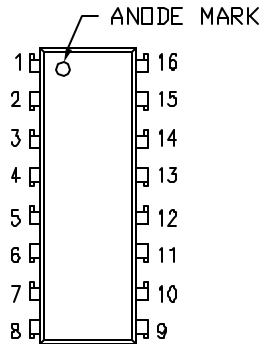


UNCONTROLLED DOCUMENT

PART NUMBER  
OCP-PCT4216/A

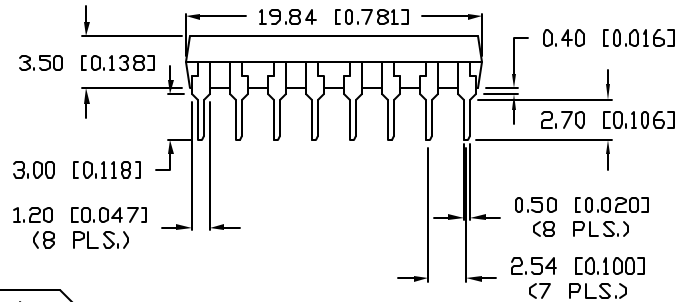
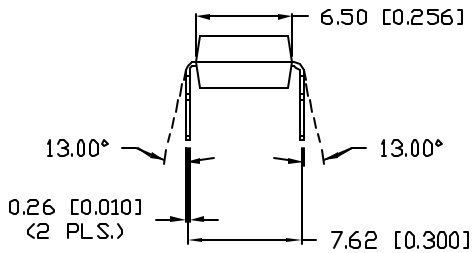
REV.  
B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01
B	E.C.N. #11148.	5.16.07



NOTES:

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



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	MAX	UNITS
FORWARD CURRENT	IF	±50	mA
PEAK FORWARD CURRENT	IFM	±1	A
POWER DISSIPATION	Pd	70	mW
COLLECTOR-EMITTER VOLTAGE	VCE0	60	V
EMITTER-COLLECTOR VOLTAGE	VECO	6	V
COLLECTOR CURRENT	IC	50	mA
COLLECTOR POWER DISSIPATION	Pc	150	mW
TOTAL POWER DISSIPATION	Ptot	200	mW
ISOLATION VOLTAGE 1 MIN.	Viso	5000	V RMS
OPERATING TEMP.	Topr	-30 TO +100	°C
STORAGE TEMP.	Tstg	-55 TO +125	°C
SOLDERING TEMP.	Tscl	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, D=OUTPUT.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I FORWARD VOLTAGE	Vf	IF=±20mA	-	1.2	1.4	V
PEAK FORWARD VOLTAGE	VFM	IFM=±0.5A	-	-	3.5	V
TERMINAL CAPACITANCE	Ct	V=0, f=1kHz	-	30	-	pF
D COLLECTOR DARK CURRENT	ICE0	VCE=20V, IF=0	-	-	10 <sup>-7</sup>	A
T CURRENT TRANSFER RATIO	CRT	IF=±1mA, VCE=5V	60	-	600	%
COLLECTOR-EMITTER SATURATION VOLTAGE	VCE(sat)	IF=±20mA, IC=1mA	-	0.1	0.3	V
ISOLATION RESISTANCE	Riso	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	-	ohm
FLOATING CAPACITANCE	Cf	V=0, f=1MHz	-	0.6	1.0	pF
CUT-OFF FREQUENCY	fc	VCE=5V, IC=2mA, RL=100ohm	-	80	-	kHz
RESPONSE TIME (RISE)	tr	VCE=2V, IC=2mA, RL=100ohm	-	5	20	µS
RESPONSE TIME (FALL)	tf	VCE=2V, IC=2mA, RL=100ohm	-	4	20	µS

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

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

UNCONTROLLED DOCUMENT

REV.  
B

PART NUMBER  
OCP-PCT4216/A

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

SIXTEEN PIN DIP QUAD CHANNEL PHOTOCOUPLER,  
BIPOLAR INPUT, 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: JC	CHECKED BY:	APPROVED BY:	DATE: 9.29.99
			PAGE: 1 OF 1
			SCALE: N/A