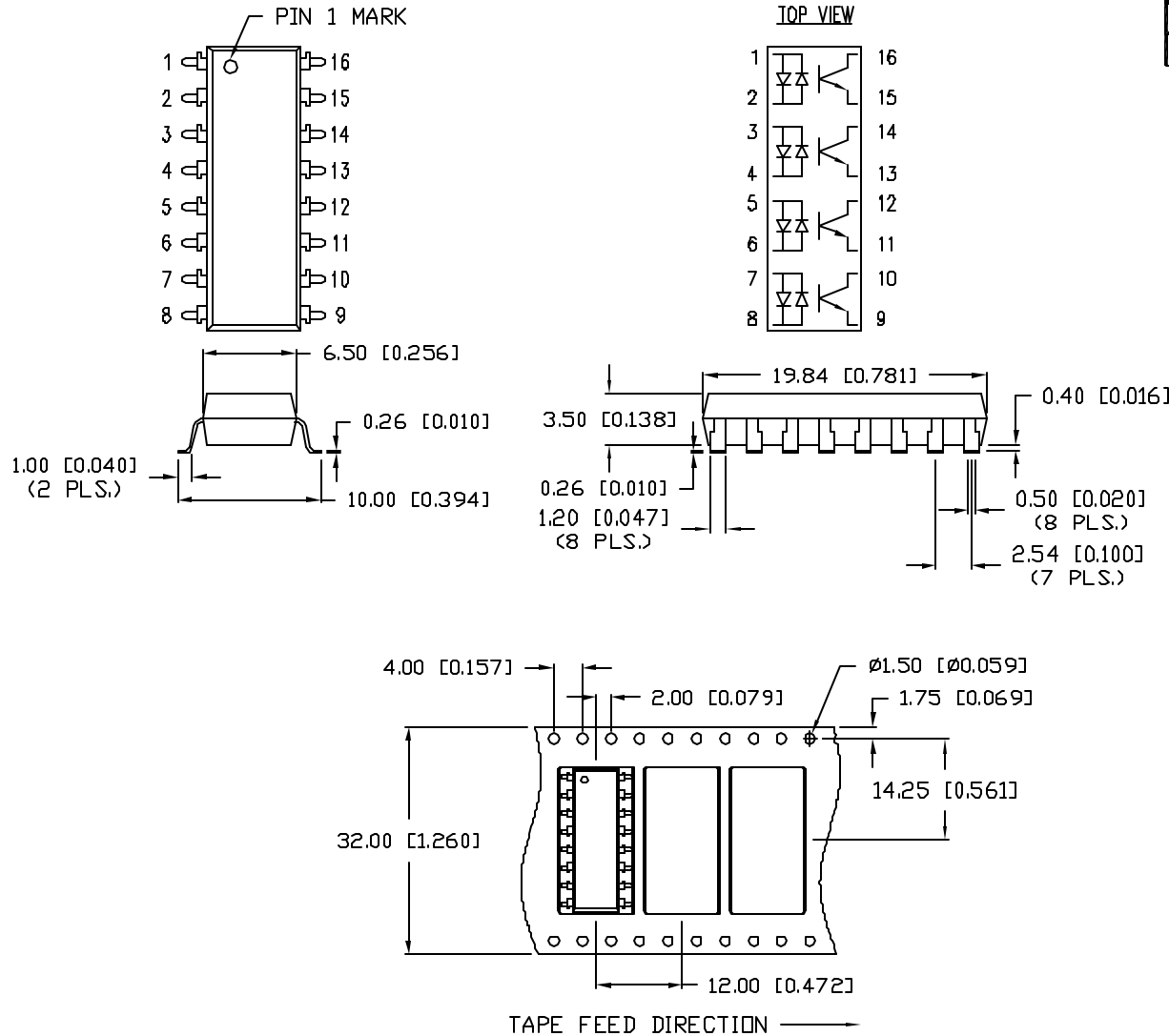


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PART NUMBER		REV.
OCP-PCT4216/A-TR1		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	5.16.07



NOTES:

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



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*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 MAX.=+0.00 -DECIMAL PRECISION

REV.	PART NUMBER	CONFIDENTIAL INFORMATION		LUMEX		290 E. HELEN ROAD	
A	OCP-PCT4216/A-TR1	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.				PALATINE, IL 60067-6976	
16 PIN SURFACE MOUNT QUAD CHANNEL PHOTOCOUPLER, BIPOLAR INPUT, TRANSISTOR OUTPUT, WITHOUT EXTERNAL BASE CONNECTION.		RELIABILITY NOTE		DRAWN BY:		APPROVED BY:	
		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.		JC		DATE: 10.11.01	
						PAGE: 1 OF 2	
						SCALE: N/A	

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A

REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

SEE PAGE #1

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

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I FORWARD VOLTAGE	V_F	$I_F=\pm 20\text{mA}$	-	1.2	1.4	V
PEAK FORWARD VOLTAGE	V_{FM}	$I_{FM}=\pm 0.5\text{A}$	-	-	3.5	V
TERMINAL CAPACITANCE	C_t	$V=0$, $f=1\text{kHz}$	-	30	-	pF
Q COLLECTOR DARK CURRENT	I_{CE0}	$V_{CE}=20\text{V}$, $I_F=0$	-	-	10^{-7}	A
T CURRENT TRANSFER RATIO	CRT	$I_F=\pm 1\text{mA}$, $V_{CE}=5\text{V}$	60	-	600	%
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{CE(sat)}$	$I_F=\pm 20\text{mA}$, $I_C=1\text{mA}$	-	0.1	0.3	V
ISOLATION RESISTANCE	R_{ISO}	DC500V	5×10^{10}	10^{11}	-	ohm
FLOATING CAPACITANCE	C_f	$V=0$, $f=1\text{MHz}$	-	0.6	1.0	pF
CUT-OFF FREQUENCY	f_c	$V_{CE}=5\text{V}$, $I_C=2\text{mA}$, $R_L=100\text{ohm}$	-	80	-	kHz
RESPONSE TIME (RISE)	t_r	$V_{CE}=2\text{V}$, $I_C=2\text{mA}$, $R_L=100\text{ohm}$	-	5	20	μS
RESPONSE TIME (FALL)	t_f	$V_{CE}=2\text{V}$, $I_C=2\text{mA}$, $R_L=100\text{ohm}$	-	4	20	μS

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

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
POWER DISSIPATION	P_D	70	mW
O COLLECTOR-EMITTER VOLTAGE	V_{CEO}	60	V
EMITTER-COLLECTOR VOLTAGE	V_{EC0}	6	V
COLLECTOR CURRENT	I_C	50	mA
COLLECTOR POWER DISSIPATION	P_C	150	mW
TOTAL POWER DISSIPATION	P_{tot}	200	mW
ISOLATION VOLTAGE 1 MIN.	V_{ISO}	5000	V RMS
OPERATING TEMP.	T_{opr}	-30 TO +100	$^\circ\text{C}$
STORAGE TEMP.	T_{stg}	-55 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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PART NUMBER

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BIPOLAR INPUT, TRANSISTOR OUTPUT,
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