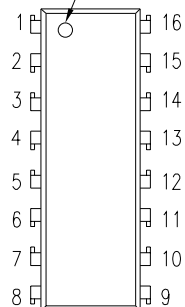
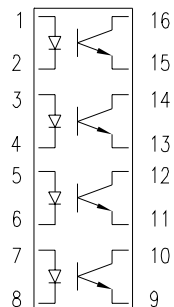


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ANODE MARK

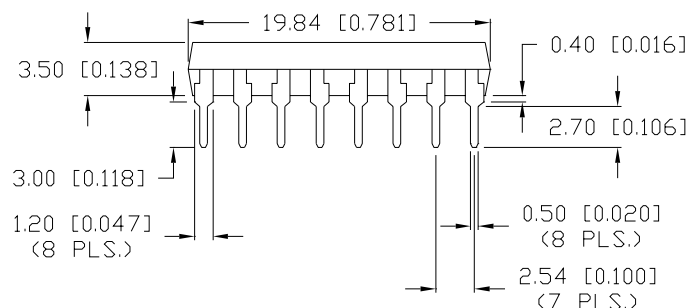
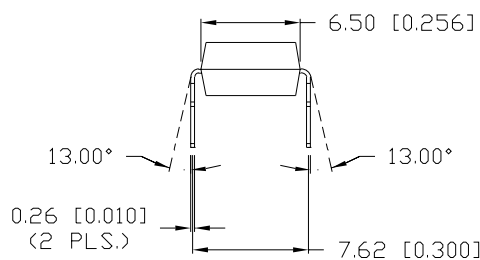


TOP VIEW



NOTES:

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



CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

PART NUMBER TABLE

PART=	/X	CTR (%)
/A		60 TO 160
/B		130 TO 260
/C		200 TO 400
/D		300 TO 600
/E		60 TO 600

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	MAX	UNITS
I FORWARD CURRENT	I <sub>F</sub>	50	mA
PEAK FORWARD CURRENT	I <sub>FM</sub>	1	A
REVERSE VOLTAGE	V <sub>R</sub>	6	V
POWER DISSIPATION	P <sub>d</sub>	70	mW
O COLLECTOR-EMITTER VOLTAGE	V <sub>CE0</sub>	60	V
EMITTER-COLLECTOR VOLTAGE	V <sub>ECO</sub>	6	V
COLLECTOR CURRENT	I <sub>C</sub>	50	mA
COLLECTOR POWER DISSIPATION	P <sub>C</sub>	150	mW
T TOTAL POWER DISSIPATION	P <sub>tot</sub>	200	mW
ISOLATION VOLTAGE 1 MIN.	V <sub>ISO</sub>	5000	V <sub>RMS</sub>
OPERATING TEMPERATURE	T <sub>opr</sub>	-30 TO +100	°C
STORAGE TEMPERATURE	T <sub>stg</sub>	-55 TO +125	°C
SOLDERING TEMPERATURE	T <sub>sol</sub>	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

ELECTRO-OPTICAL CHARACTERISTICS (To=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
REVERSE CURRENT	I <sub>R</sub>	V <sub>R</sub> =4V	-	-	10	μA
TERMINAL CAPACITANCE	C <sub>t</sub>	V=0, f=1kHz	-	30	-	pF
O COLLECTOR DARK CURRENT	I <sub>CE0</sub>	V <sub>CE</sub> =20V	-	-	10 <sup>-7</sup>	A
T CURRENT TRANSFER RATIO	CRT	I <sub>F</sub> =2mA, 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> =5V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	5	20	μS
RESPONSE TIME (FALL)	t <sub>f</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	4	20	μS

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

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\*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

REV.

PART NUMBER

OCP-PCT4116/X

## CONFIDENTIAL INFORMATION

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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.

**LUMEX**  
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DATE: 9-29-99

PAGE: 1 OF 1

SCALE: N/A

SIXTEEN PIN DIP QUAD CHANNEL PHOTOCOUPLER,  
TRANSISTOR OUTPUT WITHOUT EXTERNAL BASE CONNECTION.