



**THE DATASHEET OF
OCP-PCT4116/E**

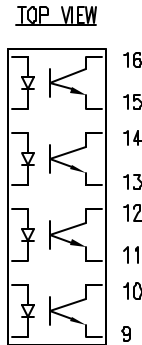
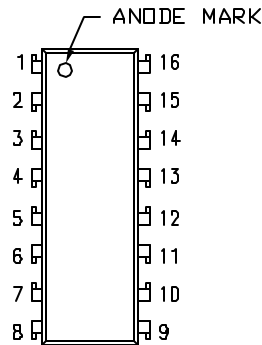


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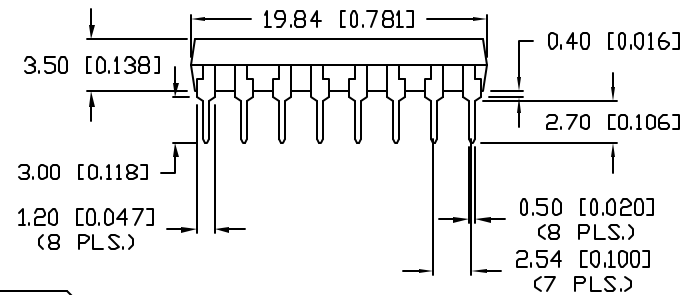
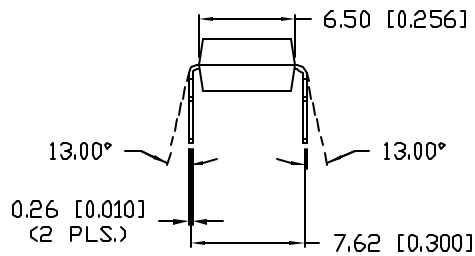
PART NUMBER
OCP-PCT4116/E

REV.
A

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



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



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 COLLECTOR DARK CURRENT	I _{CEO}	V _{CE} =20V	-	-	10 ⁻⁷	A
T CURRENT TRANSFER RATIO	CRT	I _f =2mA, V _{CE} =5V	60	-	600	%
COLLECTOR-EMITTER SATURATION VOLTAGE	V _{CE(sat)}	I _f =20mA, I _c =1mA	-	0.1	0.3	V
ISOLATION RESISTANCE	R _{ISO}	DC500V	5x10 ¹⁰	10 ¹¹	-	ohm
FLOATING CAPACITANCE	C _f	V=0, f=1MHz	-	0.6	1.0	pF
CUT-OFF FREQUENCY	f _c	V _{CE} =5V, I _c =2mA, R _L =100ohm	-	80	-	kHz
RESPONSE TIME (RISE)	t _r	V _{CE} =5V, I _c =2mA, R _L =100ohm	-	5	20	μS
RESPONSE TIME (FALL)	t _f	V _{CE} =5V, I _c =2mA, R _L =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.=^{+DECIMAL PRECISION}-0.00, MAX.=^{+0.00}-DECIMAL PRECISION

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 COLLECTOR-EMITTER VOLTAGE	V _{CEO}	60	V
EMITTER-COLLECTOR VOLTAGE	V _{ECO}	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 TEMPERATURE	T _{opr}	-30 TO +100	°C
STORAGE TEMPERATURE	T _{stg}	-55 TO +125	°C
SOLDERING TEMPERATURE	T _{sol}	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

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SIXTEEN PIN DIP 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.

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			SCALE: N/A

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