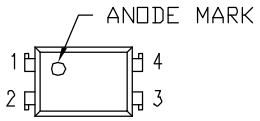
THE DATASHEET OF

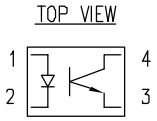
OCP-PCT114/E-TR

UNCONTROLLED DOCUMENT

PART NUMBER	REV.
OCP-PCT114/X	C

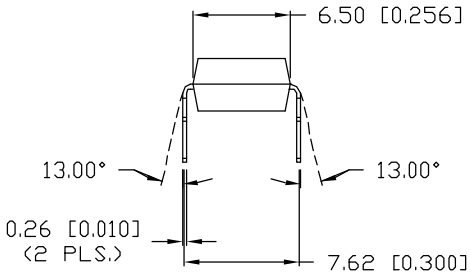
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01
B	E.C.N. #11148.	5.16.07
C	E.C.N. #11534.	10.03.08

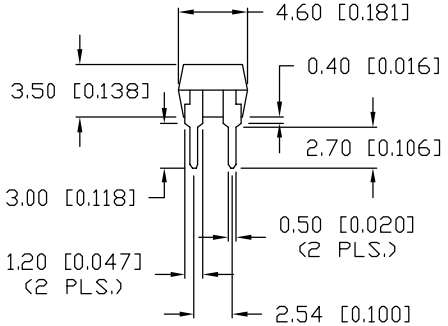




NOTES:

1. ANODE
2. CATHODE
3. EMITTER
4. COLLECTOR





PART NUMBER TABLE

PART= /X	CTR (%)
/A	60 TO 160
/B	130 TO 260
/C	200 TO 400
/D	300 TO 600
/E	50 TO 600

[C]

ABSOLUTE MAXIMUM RATINGS (Ta=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

[B] I=INPUT, O=OUTPUT.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=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	Ct	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	50	–	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.

Pb

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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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.	PART NUMBER
C	OCP-PCT114/X

FOUR PIN DIP SINGLE CHANNEL PHOTOCOUPLER,

TRANSISTOR OUTPUT, NO 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.

LUMEX INC. We Tame Photons To Work For You

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[A]

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 9.29.99
JC			PAGE: 1 OF 1
			SCALE: N/A

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