

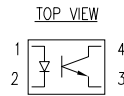
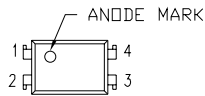
UNCONTROLLED DOCUMENT

PART NUMBER
OCP-PCT114/X

REV.

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

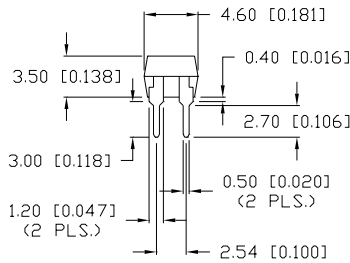
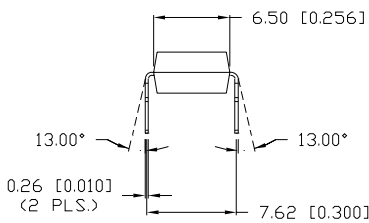
DATE



NOTES:

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

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



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	If	50	mA
PEAK FORWARD CURRENT	Ifm	1	A
REVERSE VOLTAGE	Vr	6	V
POWER DISSIPATION	Pd	70	mW
O 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 TEMPERATURE	Topr	-30 TO +100	°C
STORAGE TEMPERATURE	Tstg	-55 TO +125	°C
SOLDERING TEMPERATURE	Tsol	+260	°C
2.0mm FROM BODY			10 SEC. MAX

I=INPUT, O=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
REVERSE CURRENT	Ir	Vr=4V	-	-	10	µA
TERMINAL CAPACITANCE	Ct	V=0, f=1kHz	-	30	-	pF
O COLLECTOR DARK CURRENT	Ic0	Vce=20V	-	-	10 ⁻⁷	A
T CURRENT TRANSFER RATIO	CRT	If=2mA, Vce=5V	60	-	600	%
COLLECTOR-EMITTER SATURATION VOLTAGE	Vce(sat)	If=20mA, Ic=1mA	-	0.1	0.3	V
ISOLATION RESISTANCE	Riso	DC500V	5x10 ¹⁰	10 ¹¹	-	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=5V, Ic=2mA, Rl=100ohm	-	5	20	µS
RESPONSE TIME (FALL)	tf	Vce=5V, Ic=2mA, Rl=100ohm	-	4	20	µS

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

UNCONTROLLED DOCUMENT

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

REV.	PART NUMBER OCP-PCT114/X
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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.

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			PAGE: 1 OF 1
			SCALE: N/A