



**THE DATASHEET OF  
OCP-PCT114/E-TR**

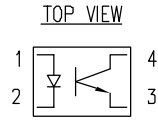
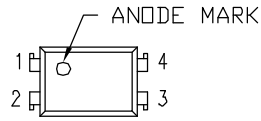


UNCONTROLLED DOCUMENT

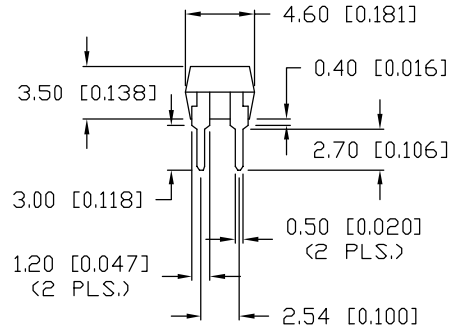
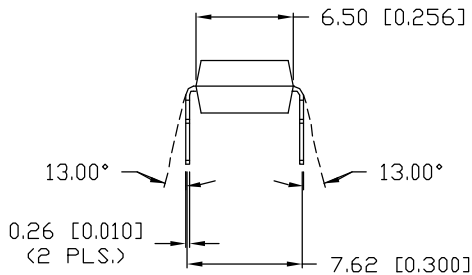
PART NUMBER  
OCP-PCT114/X

REV.  
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

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	

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	Ice0	Vce=20V	-	-	10 <sup>-7</sup>	A
T CURRENT TRANSFER RATIO	CRT	IF=2mA, Vce=5V	50	-	600	%
COLLECTOR-EMITTER SATURATION VOLTAGE	Vce(sat)	IF=20mA, Ic=1mA	-	0.1	0.3	V
ISOLATION RESISTANCE	Riso	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	-	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.

\*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. C	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.

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

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