

UNCONTROLLED DOCUMENT

PART NUMBER  
OCP-PCT124/X-TR

REV.

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

ELECTRO-OPTICAL CHARACTERISTICS (T<sub>a</sub>=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
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, I <sub>F</sub> =0	-	-	10 <sup>-7</sup>	A
T CURRENT TRANSFER RATIO	CRT	I <sub>F</sub> =±1mA, 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> =2V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	5	20	μS
RESPONSE TIME (FALL)	t <sub>f</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =2mA, R <sub>L</sub> =100ohm	-	4	20	μS

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

ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

PARAMETER	SYMBOL	MAX	UNITS
I FORWARD CURRENT	I <sub>F</sub>	±50	mA
PEAK FORWARD CURRENT	I <sub>FM</sub>	±1	A
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
TOTAL POWER DISSIPATION	P <sub>tot</sub>	200	mW
ISOLATION VOLTAGE 1 MIN.	V <sub>iso</sub>	5000	V <sub>RMS</sub>
OPERATING TEMP.	T <sub>opr</sub>	- 30 TO + 100	°C
STORAGE TEMP.	T <sub>stg</sub>	- 55 TO + 125	°C
SOLDERING TEMP.	T <sub>sol</sub>	+ 260	°C
2.0mm FROM BODY			10 SEC. MAX

I=INPUT, O=OUTPUT,

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

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4 PIN SURFACE MOUNT SINGLE CHANNEL PHOTOCOUPLER,  
BIPOLAR INPUT, 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.

DRAWN BY: CHECKED BY: APPROVED BY: DATE: 9-29-99  
PAGE: 2 OF 2  
SCALE: N/A