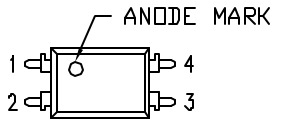
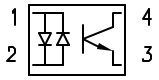
UNCONTROLLED DOCUMENT

PART NUMBER	REV.
OCP-PCT124/A-TR	D

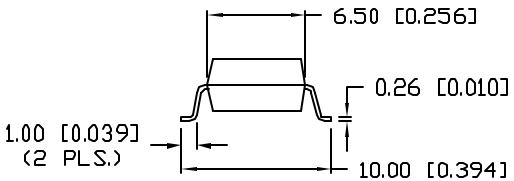
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01
B	E.C.N. #10815.	12.3.01
C	E.C.N. #10894.	7.26.02
D	E.C.N. #11148.	5.16.07

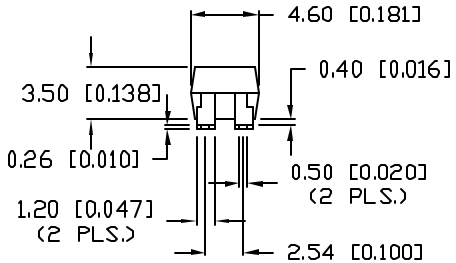




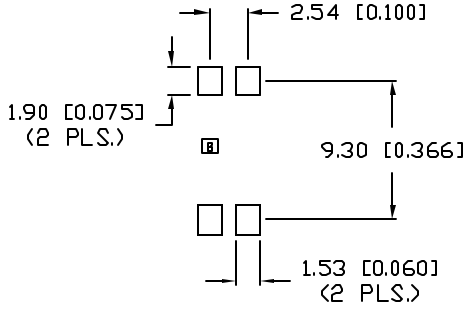
NOTES:

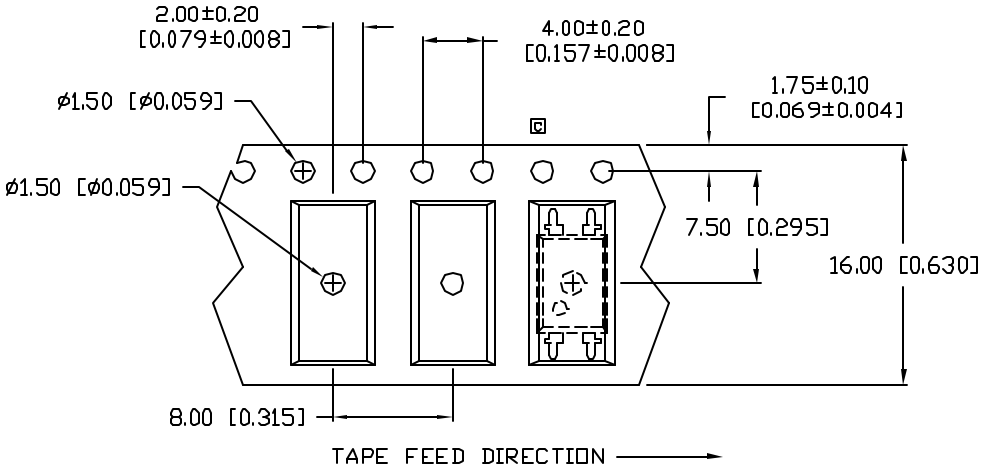
1. ANODE/CATHODE
2. CATHODE/ANODE
3. EMITTER
4. COLLECTOR





RECOMMENDED SOLDER PAD LAYOUT





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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= $^{+\text{DECIMAL PRECISION}}_{-0.00}$ MAX.= $^{+0.00}_{-\text{DECIMAL PRECISION}}$

REV.	PART NUMBER
D	OCP-PCT124/A-TR

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.

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			SCALE: N/A

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	SEE PAGE 1.	

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
	TERMINAL CAPACITANCE	C_t	V=0, f=1kHz	–	30	–	pF
O	COLLECTOR DARK CURRENT	I_{CEO}	V_{CE}=20V, I_F=0	–	–	10^{-7}	A
T	CURRENT TRANSFER RATIO	CRT	I_F=±1mA, 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}=2V, I_C=2mA, R_L=100ohm	–	5	20	µS
	RESPONSE TIME (FALL)	t_f	V_{CE}=2V, I_C=2mA, R_L=100ohm	–	4	20	µS

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

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
	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 TEMP.	T_{opr}	−30 TO +100	°C
	STORAGE TEMP.	T_{stg}	−55 TO +125	°C
	SOLDERING TEMP.	T_{sol}	+260	°C
	2.0mm FROM BODY			10 SEC. MAX

I=INPUT, O=OUTPUT.

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