



**THE DATASHEET OF  
OCP-PCTB116/E**

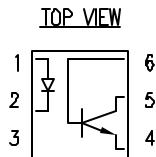
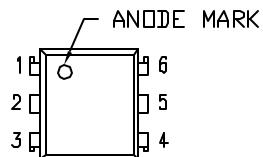


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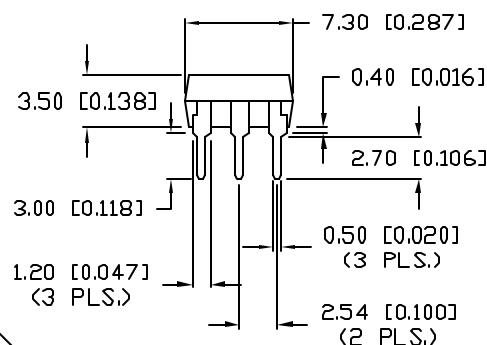
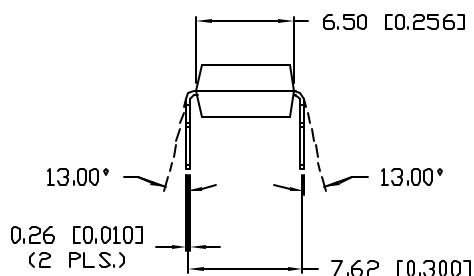
PART NUMBER  
OCP-PCTB116/E

REV.  
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01



- NOTES:
1. ANODE
  2. CATHODE
  3. NO CONNECT
  4. EMITTER
  5. COLLECTOR
  6. BASE



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
REVERSE CURRENT	I <sub>R</sub>	V <sub>R</sub> =4V	-	-	10	μA
TERMINAL CAPACITANCE	C <sub>t</sub>	V=0, f=1kHz	-	30	-	pF
O COLLECTOR DARK CURRENT	I <sub>CEO</sub>	V <sub>CE</sub> =20V	-	-	10 <sup>-7</sup>	A
T CURRENT TRANSFER RATIO	CRT	I <sub>f</sub> =2mA, 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> =5V, I <sub>c</sub> =2mA, R <sub>L</sub> =100ohm	-	5	20	μS
RESPONSE TIME (FALL)	t <sub>f</sub>	V <sub>CE</sub> =5V, I <sub>c</sub> =2mA, R <sub>L</sub> =100ohm	-	4	20	μS

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

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.=<sup>+DECIMAL PRECISION</sup>-0.00, MAX.=<sup>+0.00</sup>-DECIMAL PRECISION

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
REVERSE VOLTAGE	V <sub>R</sub>	6	V
POWER DISSIPATION	P <sub>D</sub>	70	mW
O COLLECTOR-EMITTER VOLTAGE	V <sub>CEO</sub>	60	V
EMITTER-COLLECTOR VOLTAGE	V <sub>ECO</sub>	6	V
COLLECTOR-BASE VOLTAGE	V <sub>CBO</sub>	60	V
EMITTER-BASE VOLTAGE	V <sub>EBO</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>ISD</sub>	5000	V <sub>RMS</sub>
OPERATING TEMPERATURE	T <sub>opr</sub>	-30 TO +100	°C
STORAGE TEMPERATURE	T <sub>stg</sub>	-55 TO +125	°C
SOLDERING TEMPERATURE	T <sub>sol</sub>	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

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SIX PIN DIP SINGLE CHANNEL PHOTOCOUPLER,  
TRANSISTOR OUTPUT WITH 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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