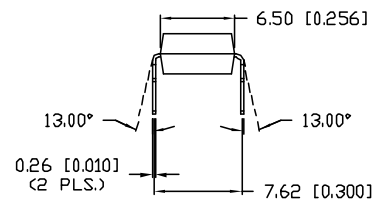
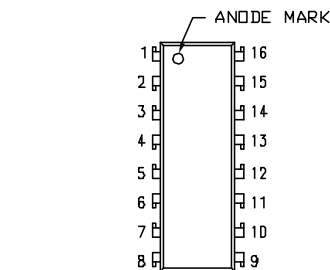
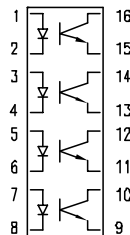


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TOP VIEW



NOTES:

1,3,5,7. ANODE  
2,4,6,8. CATHODE  
9,11,13,15. EMITTER  
10,12,14,16. COLLECTOR

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER                            | SYMBOL               | CONDITIONS                                                       | MIN                | TYP              | MAX              | UNITS |
|--------------------------------------|----------------------|------------------------------------------------------------------|--------------------|------------------|------------------|-------|
| 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    |
| COLLECTOR DARK CURRENT               | I <sub>CEO</sub>     | V <sub>CE</sub> =20V                                             | -                  | -                | 10 <sup>-7</sup> | A     |
| 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).



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| PARAMETER                   | SYMBOL           | MAX         | UNITS            |
|-----------------------------|------------------|-------------|------------------|
| 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               |
| COLLECTOR-EMITTER VOLTAGE   | V <sub>CEO</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 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 |                  |

I=INPUT, O=OUTPUT.

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REV.  
B

PART NUMBER  
OCP-PCT4116/E

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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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SIXTEEN PIN DIP QUAD CHANNEL PHOTOCOUPLER,  
TRANSISTOR OUTPUT WITHOUT EXTERNAL BASE CONNECTION.

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JC

CHECKED BY:

APPROVED BY:

DATE: 9.29.99

PAGE: 1 OF 1

SCALE: N/A