

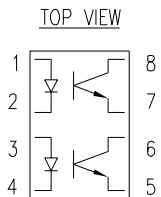
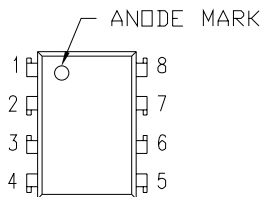
UNCONTROLLED DOCUMENT

PART NUMBER
OCP-PCT218/X

REV.

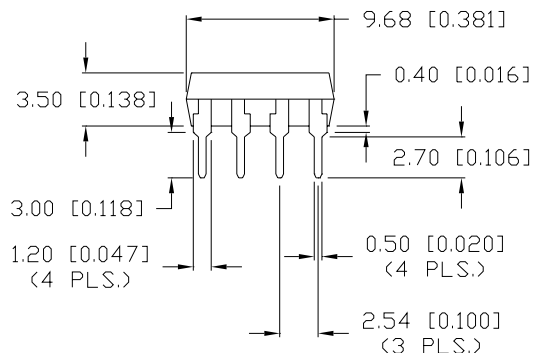
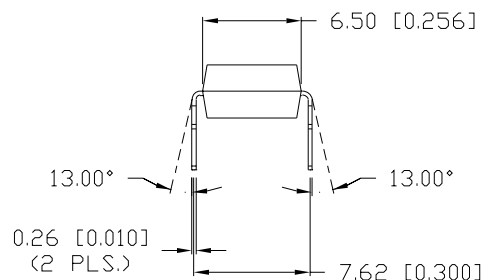
REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE



NOTES:
1,3. ANODE
2,4. CATHODE
5,7. EMITTER
6,8. COLLECTOR

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



| PART NUMBER TABLE | |
|-------------------|------------|
| PART= /X | CTR (%) |
| /A | 60 TO 160 |
| /B | 130 TO 260 |
| /C | 200 TO 400 |
| /D | 300 TO 600 |
| /E | 60 TO 600 |

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| PARAMETER | SYMBOL | MAX | UNITS |
|-----------------------------|------------------|---------------|------------------|
| I FORWARD CURRENT | I _F | 50 | mA |
| PEAK FORWARD CURRENT | I _{FM} | 1 | A |
| REVERSE VOLTAGE | V _R | 6 | V |
| POWER DISSIPATION | P _d | 70 | mW |
| 0 COLLECTOR-EMITTER VOLTAGE | V _{CE0} | 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 TEMPERATURE | T _{opr} | - 30 TO + 100 | °C |
| STORAGE TEMPERATURE | T _{stg} | - 55 TO + 125 | °C |
| SOLDERING TEMPERATURE | T _{sol} | + 260 | °C |
| 2.0mm FROM BODY | | 10 SEC. MAX | |

I=INPUT, 0=OUTPUT.

ELECTRO-OPTICAL CHARACTERISTICS (To=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 |
| REVERSE CURRENT | I _R | V _R =4V | - | - | 10 | μA |
| TERMINAL CAPACITANCE | C _t | V=0, f=1kHz | - | 30 | - | pF |
| 0 COLLECTOR DARK CURRENT | I _{CE0} | V _{CE} =20V | - | - | 10 ⁻⁷ | A |
| T CURRENT TRANSFER RATIO | CRT | I _F =2mA, 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} =5V, I _C =2mA, R _L =100ohm | - | 5 | 20 | μS |
| RESPONSE TIME (FALL) | t _f | V _{CE} =5V, I _C =2mA, R _L =100ohm | - | 4 | 20 | μS |

I=INPUT, 0=OUTPUT, T=TRANSFER CHARACTERISTICS.

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

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EIGHT PIN DIP DUAL CHANNEL PHOTOCOUPLER,
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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APPROVED BY:
DATE: 9-29-99
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SCALE: N/A