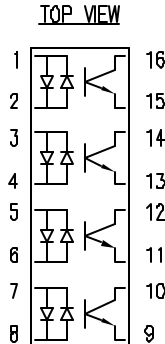
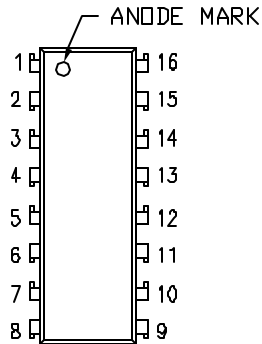


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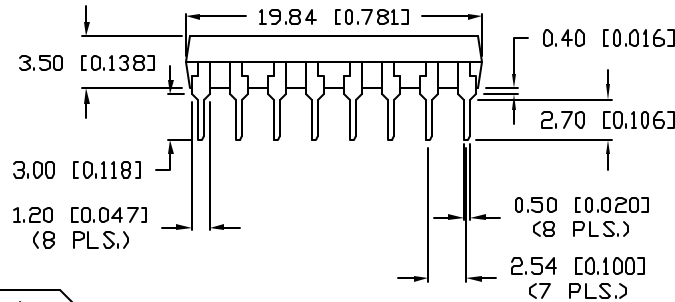
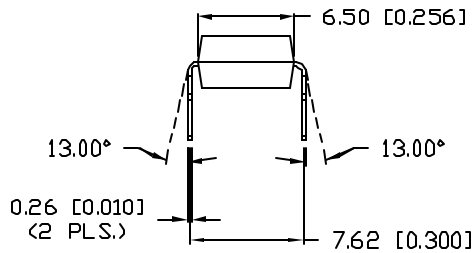
REV.
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|---------|
| A | E.C.N. #10BRDR. & #10776. | 8.16.01 |
| B | E.C.N. #11148. | 5.16.07 |



NOTES:

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



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| PARAMETER | SYMBOL | MAX | UNITS |
|-----------------------------|--------|-------------|-------------|
| FORWARD CURRENT | IF | ±50 | mA |
| PEAK FORWARD CURRENT | IFM | ±1 | A |
| POWER DISSIPATION | Pd | 70 | mW |
| COLLECTOR-EMITTER VOLTAGE | VCE0 | 60 | V |
| EMITTER-COLLECTOR VOLTAGE | VECO | 6 | V |
| COLLECTOR CURRENT | IC | 50 | mA |
| COLLECTOR POWER DISSIPATION | Pc | 150 | mW |
| TOTAL POWER DISSIPATION | Ptot | 200 | mW |
| ISOLATION VOLTAGE 1 MIN. | Viso | 5000 | V RMS |
| OPERATING TEMP. | Topr | -30 TO +100 | °C |
| STORAGE TEMP. | Tstg | -55 TO +125 | °C |
| SOLDERING TEMP. | Tsd | +260 | °C |
| 2.0mm FROM BODY | | | 10 SEC. MAX |

I=INPUT, D=OUTPUT.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNITS |
|--------------------------------------|----------|---------------------------|--------------------|------------------|------------------|-------|
| I FORWARD VOLTAGE | Vf | IF=±20mA | - | 1.2 | 1.4 | V |
| PEAK FORWARD VOLTAGE | VFM | IFM=±0.5A | - | - | 3.5 | V |
| TERMINAL CAPACITANCE | Ct | V=0, f=1kHz | - | 30 | - | pF |
| D COLLECTOR DARK CURRENT | ICE0 | VCE=20V, IF=0 | - | - | 10 ⁻⁷ | A |
| T CURRENT TRANSFER RATIO | CRT | IF=±1mA, VCE=5V | 60 | - | 600 | % |
| COLLECTOR-EMITTER SATURATION VOLTAGE | VCE(sat) | IF=±20mA, IC=1mA | - | 0.1 | 0.3 | V |
| ISOLATION RESISTANCE | Riso | DC500V | 5x10 ¹⁰ | 10 ¹¹ | - | ohm |
| FLOATING CAPACITANCE | Cf | V=0, f=1MHz | - | 0.6 | 1.0 | pF |
| CUT-OFF FREQUENCY | fc | VCE=5V, IC=2mA, RL=100ohm | - | 80 | - | kHz |
| RESPONSE TIME (RISE) | tr | VCE=2V, IC=2mA, RL=100ohm | - | 5 | 20 | µS |
| RESPONSE TIME (FALL) | tf | VCE=2V, IC=2mA, RL=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.=^{+0.00}/_{-0.00} MAX.=^{+0.00}/_{-0.00} DECIMAL PRECISION

REV.
B

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SIXTEEN PIN DIP QUAD 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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|-----------------|-------------|--------------|---------------|
| DRAWN BY: JC | CHECKED BY: | APPROVED BY: | DATE: 9.29.99 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |

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