



6-Pin DIP Zero-Cross Optoisolators Triac Driver Output (800 Volts Peak)

The MOC3081, MOC3082 and MOC3083 devices consist of gallium arsenide infrared emitting diodes optically coupled to monolithic silicon detectors performing the function of Zero Voltage Crossing bilateral triac drivers.

They are designed for use with a triac in the interface of logic systems to equipment powered from 240 Vac lines, such as solid-state relays, industrial controls, motors, solenoids and consumer appliances, etc.

- Simplifies Logic Control of 240 Vac Power
- Zero Voltage Crossing
- dv/dt of 1500 V/μs Typical, 600 V/μs Guaranteed
- **To order devices that are tested and marked per VDE 0884 requirements, the suffix "V" must be included at end of part number. VDE 0884 is a test option.**

Recommended for 240 Vac(rms) Applications:

- Solenoid/Valve Controls
- Lighting Controls
- Static Power Switches
- AC Motor Drives
- Temperature Controls
- E.M. Contactors
- AC Motor Starters
- Solid State Relays

MAXIMUM RATINGS

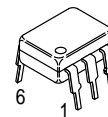
| Rating | Symbol | Value | Unit |
|--|-----------|-------|-------|
| INPUT LED | | | |
| Reverse Voltage | V_R | 6 | Volts |
| Forward Current — Continuous | I_F | 60 | mA |
| Total Power Dissipation @ $T_A = 25^\circ\text{C}$ Negligible Power in Output Driver Derate above 25°C | P_D | 120 | mW |
| | | 1.41 | mW/°C |
| OUTPUT DRIVER | | | |
| Off-State Output Terminal Voltage | V_{DRM} | 800 | Volts |
| Peak Repetitive Surge Current (PW = 100 μs, 120 pps) | I_{TSM} | 1 | A |
| Total Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C | P_D | 150 | mW |
| | | 1.76 | mW/°C |

TOTAL DEVICE

| | | | |
|---|-----------|-------------|---------|
| Isolation Surge Voltage ⁽¹⁾ (Peak ac Voltage, 60 Hz, 1 Second Duration) | V_{ISO} | 7500 | Vac(pk) |
| Total Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C | P_D | 250 | mW |
| | | 2.94 | mW/°C |
| Junction Temperature Range | T_J | -40 to +100 | °C |
| Ambient Operating Temperature Range | T_A | -40 to +85 | °C |
| Storage Temperature Rang | T_{stg} | -40 to +150 | °C |
| Soldering Temperature (10 s) | T_L | 260 | °C |

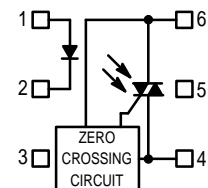
1. Isolation surge voltage, V_{ISO} , is an internal device dielectric breakdown rating. For this test, Pins 1 and 2 are common, and Pins 4, 5 and 6 are common.

MOC3081
MOC3082
MOC3083



STANDARD THRU HOLE

COUPLER SCHEMATIC



1. ANODE
2. CATHODE
3. NC
4. MAIN TERMINAL
5. SUBSTRATE
DO NOT CONNECT
6. MAIN TERMINAL

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|--|-------------------|-----|------|---------------|-------------------------------|
| INPUT LED | | | | | |
| Reverse Leakage Current ($V_R = 6\text{ V}$) | I_R | — | 0.05 | 100 | μA |
| Forward Voltage ($I_F = 30\text{ mA}$) | V_F | — | 1.3 | 1.5 | Volts |
| OUTPUT DETECTOR ($I_F = 0$) | | | | | |
| Leakage with LED Off, Either Direction ($V_{\text{DRM}} = 800\text{ V}^{(1)}$) | I_{DRM1} | — | 80 | 500 | nA |
| Critical Rate of Rise of Off-State Voltage ⁽³⁾ | dv/dt | 600 | 1500 | — | V/ μs |
| COUPLED | | | | | |
| LED Trigger Current, Current Required to Latch Output (Main Terminal Voltage = $3\text{ V}^{(2)}$) | I_{FT} | — | — | 15 10 5 | mA |
| | | | | | MOC3081 MOC3082 MOC3083 |
| Peak On-State Voltage, Either Direction ($I_{\text{TM}} = 100\text{ mA}$, $I_F = \text{Rated } I_{\text{FT}}$) | V_{TM} | — | 1.8 | 3 | Volts |
| Holding Current, Either Direction | I_{H} | — | 250 | — | μA |
| Inhibit Voltage (MT1–MT2 Voltage above which device will not trigger) ($I_F = \text{Rated } I_{\text{FT}}$) | V_{INH} | — | 5 | 20 | Volts |
| Leakage in Inhibited State ($I_F = \text{Rated } I_{\text{FT}}$, $V_{\text{DRM}} = 800\text{ V}$, Off State) | I_{DRM2} | — | 300 | 500 | μA |

1. Test voltage must be applied within dv/dt rating.
2. All devices are guaranteed to trigger at an I_F value less than or equal to max I_{FT} . Therefore, recommended operating I_F lies between max I_{FT} (15 mA for MOC3081, 10 mA for MOC3082, 5 mA for MOC3083) and absolute max I_F (60 mA).
3. This is static dv/dt. See Figure 7 for test circuit. Commutating dv/dt is a function of the load-driving thyristor(s) only.

TYPICAL CHARACTERISTICS

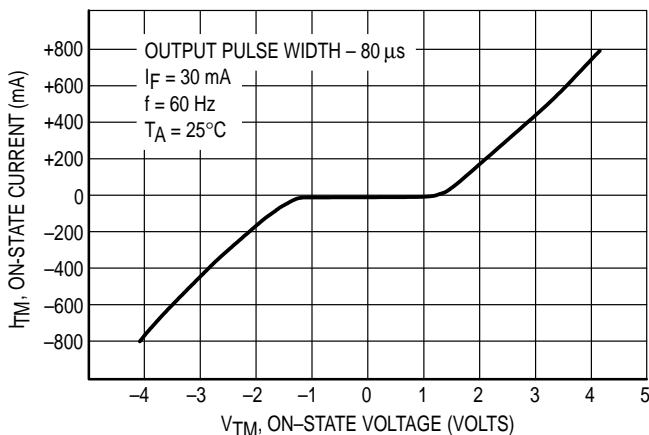


Figure 1. On-State Characteristics

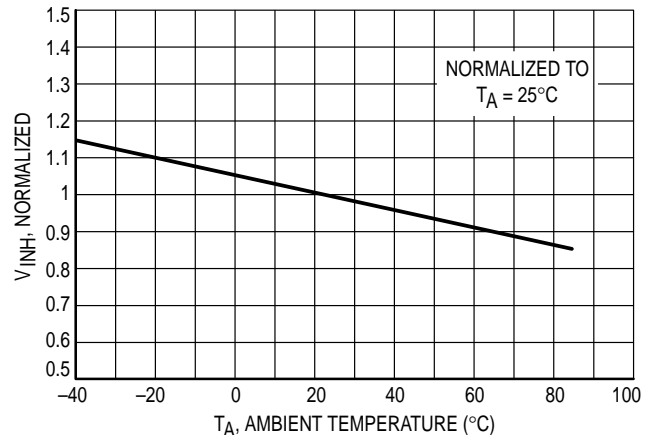


Figure 2. Inhibit Voltage versus Temperature

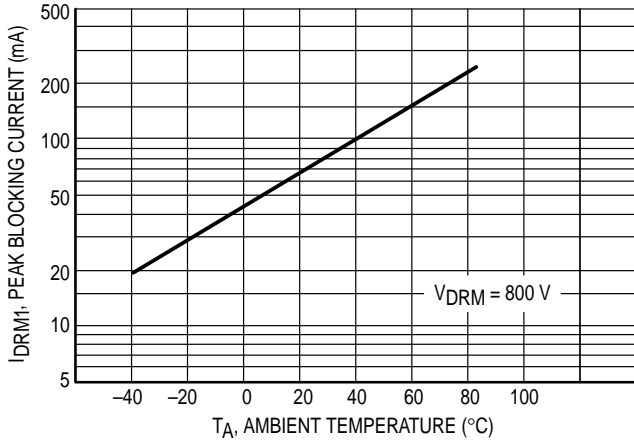


Figure 3. Leakage with LED Off versus Temperature

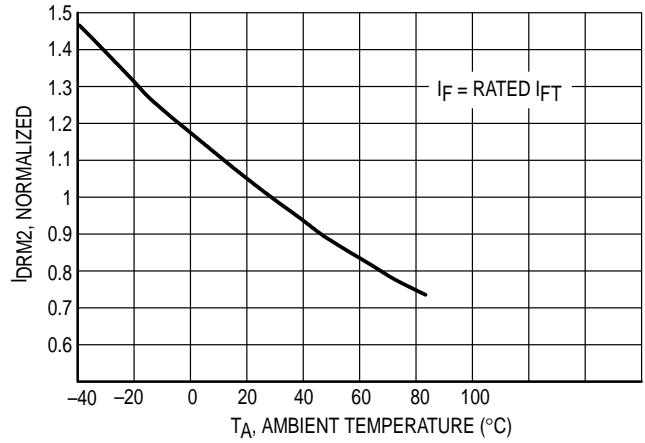


Figure 4. I_{DRM2}, Leakage in Inhibit State versus Temperature

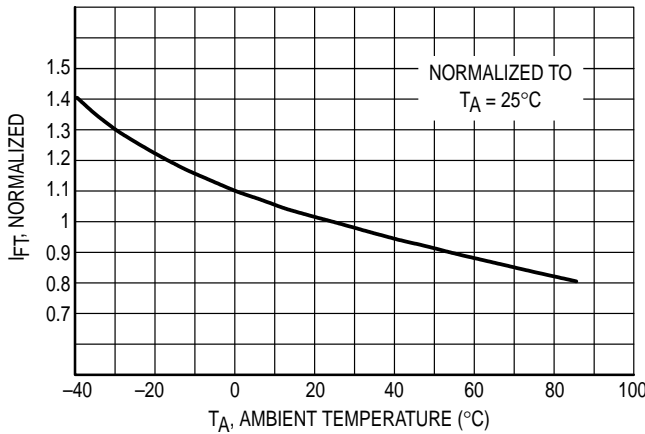


Figure 5. Trigger Current versus Temperature

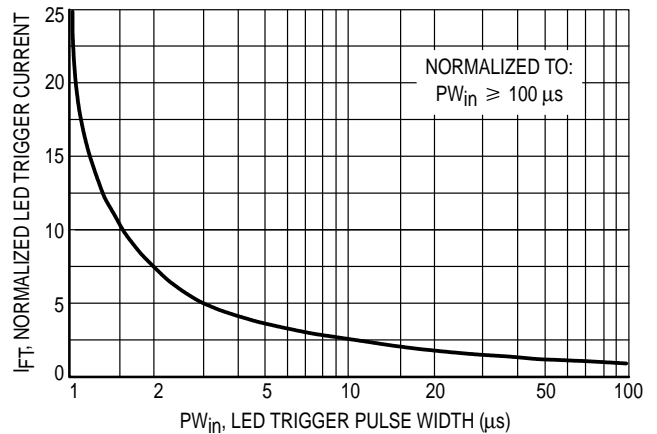


Figure 6. LED Current Required to Trigger versus LED Pulse Width

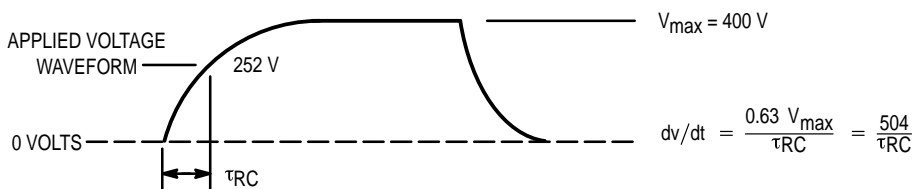
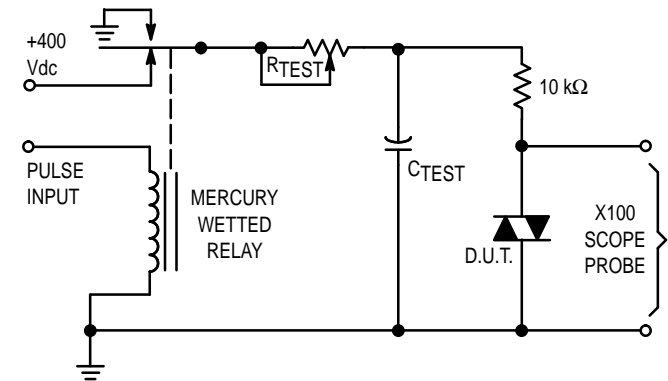
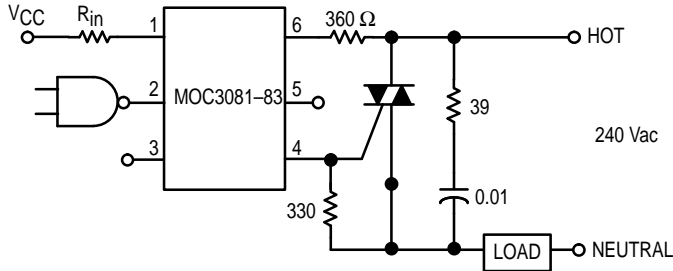


Figure 7. Static dv/dt Test Circuit

1. The mercury wetted relay provides a high speed repeated pulse to the D.U.T.
2. 100x scope probes are used, to allow high speeds and voltages.
3. The worst-case condition for static dv/dt is established by triggering the D.U.T. with a normal LED input current, then removing the current. The variable R_{TEST} allows the dv/dt to be gradually increased until the D.U.T. continues to trigger in response to the applied voltage pulse, even after the LED current has been removed. The dv/dt is then decreased until the D.U.T. stops triggering. τ_{RC} is measured at this point and recorded.

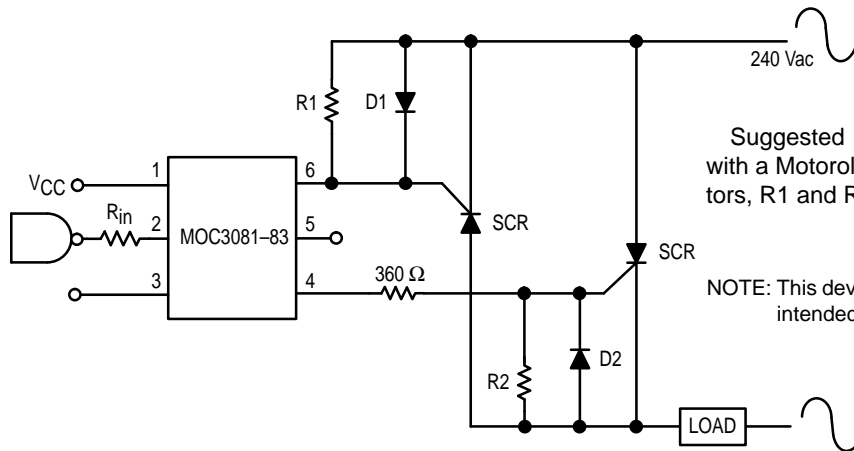


Typical circuit for use when hot line switching is required. In this circuit the "hot" side of the line is switched and the load connected to the cold or neutral side. The load may be connected to either the neutral or hot line.

R_{in} is calculated so that I_F is equal to the rated I_{FT} of the part, 15 mA for the MOC3081, 10 mA for the MOC3082, and 5 mA for the MOC3083. The 39 ohm resistor and 0.01 μF capacitor are for snubbing of the triac and may or may not be necessary depending upon the particular triac and load used.

* For highly inductive loads (power factor < 0.5), change this value to 360 ohms.

Figure 8. Hot-Line Switching Application Circuit

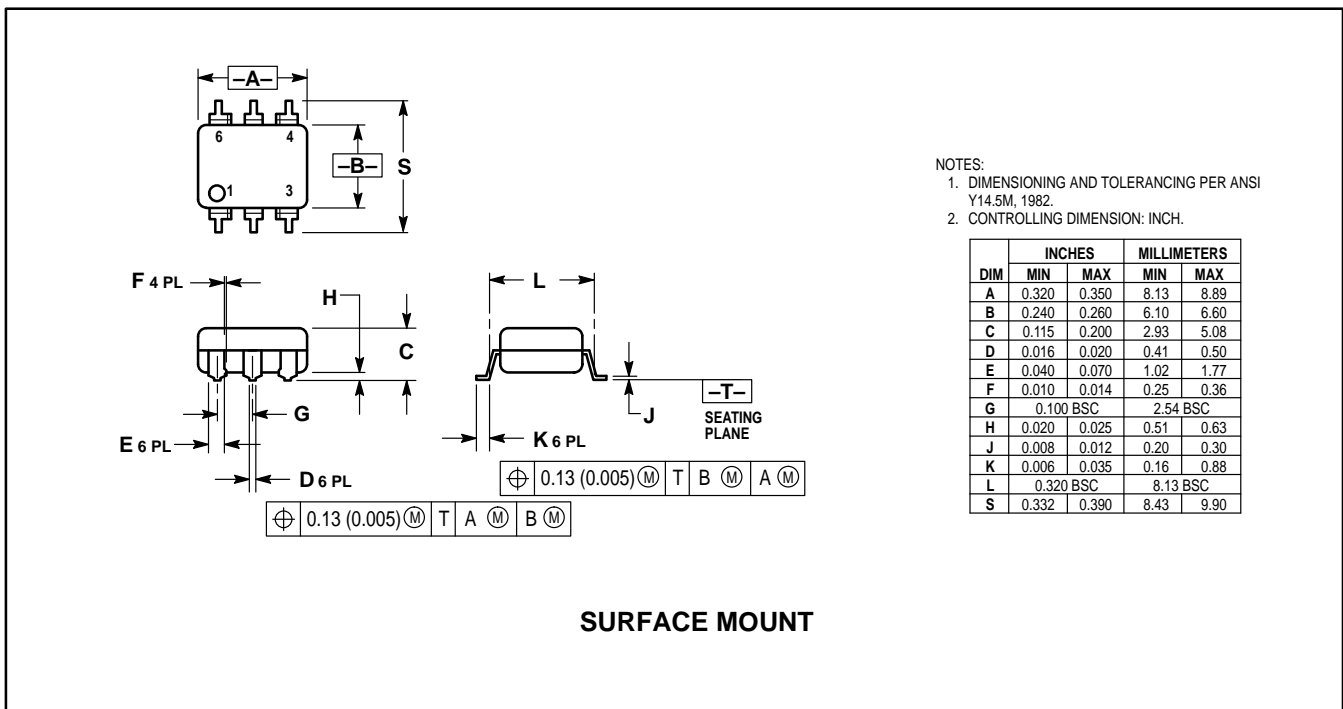
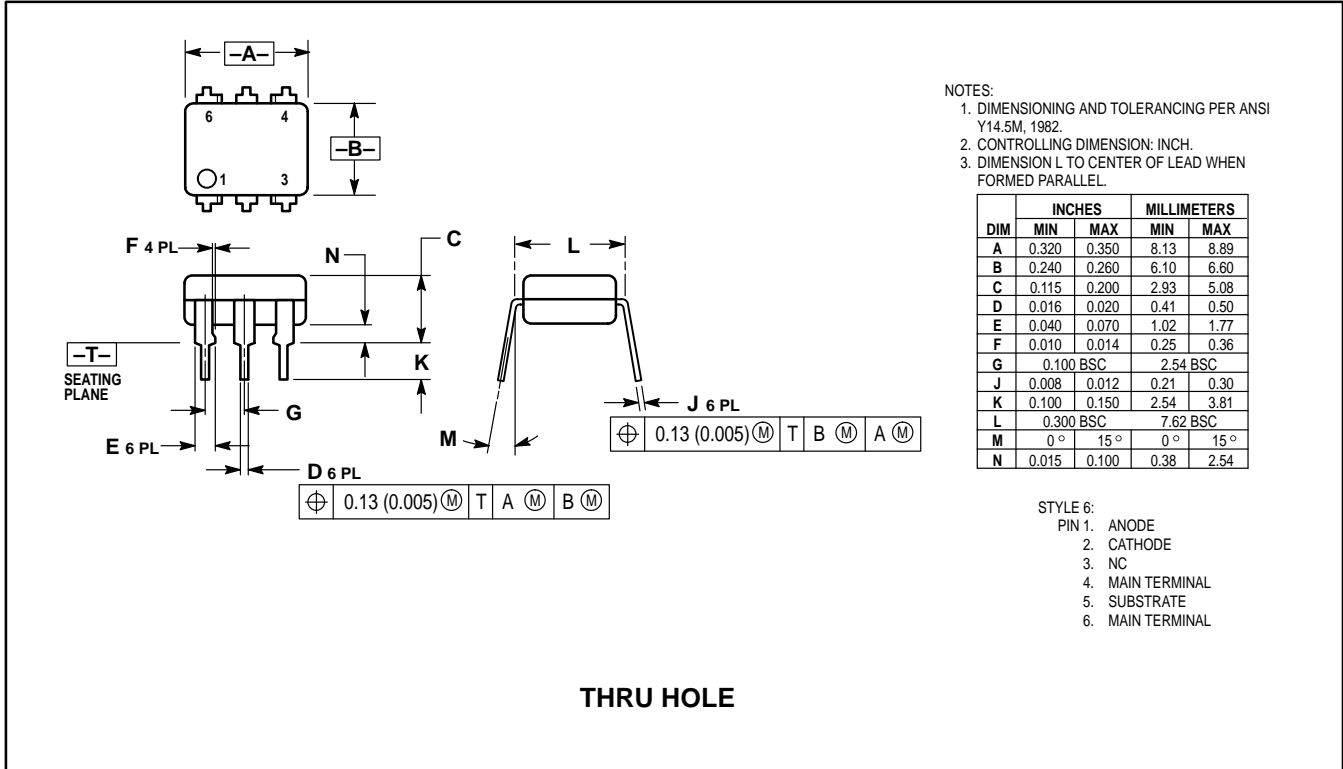


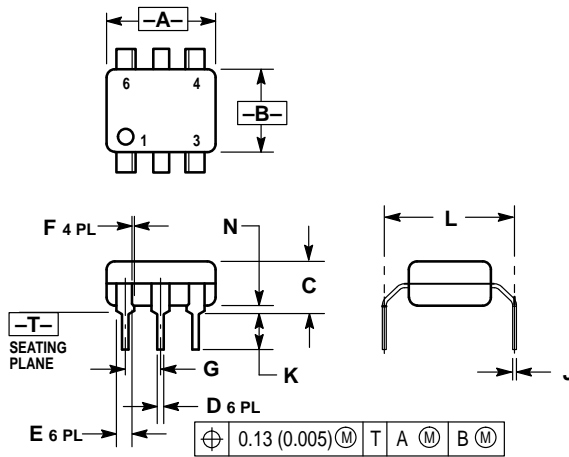
Suggested method of firing two, back-to-back SCR's, with a Motorola triac driver. Diodes can be 1N4001; resistors, R1 and R2, are optional 330 ohms.

NOTE: This device should not be used to drive a load directly. It is intended to be a trigger device only.

Figure 9. Inverse-Parallel SCR Driver Circuit

PACKAGE DIMENSIONS





- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. DIMENSION L TO CENTER OF LEAD WHEN FORMED PARALLEL.

| DIM | INCHES | | MILLIMETERS | |
|-----|-----------|-------|-------------|-------|
| | MIN | MAX | MIN | MAX |
| A | 0.320 | 0.350 | 8.13 | 8.89 |
| B | 0.240 | 0.260 | 6.10 | 6.60 |
| C | 0.115 | 0.200 | 2.93 | 5.08 |
| D | 0.016 | 0.020 | 0.41 | 0.50 |
| E | 0.040 | 0.070 | 1.02 | 1.77 |
| F | 0.010 | 0.014 | 0.25 | 0.36 |
| G | 0.100 BSC | | 2.54 BSC | |
| J | 0.008 | 0.012 | 0.21 | 0.30 |
| K | 0.100 | 0.150 | 2.54 | 3.81 |
| L | 0.400 | 0.425 | 10.16 | 10.80 |
| N | 0.015 | 0.040 | 0.38 | 1.02 |

0.4" LEAD SPACING

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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MOC3081-M

6-Pin 800V Zero Crossing Triac Driver Output Coupler

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General description

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Applications

Recommended for 115/240 Vac rms)

- Solenoid/Valve Controls
- Lighting controls
- Static power switches
- AC motor drives
- Temperature controls
- E.M. contractors
- AC motor starters

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Ordering information

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The following options can be ordered with this part:

| Option | Order Entry Identifier | Description |
|--------|------------------------|---|
| F | F | Low profile, surface mount |
| S | S | Surface mount |
| T | T | 0.4" Lead bend |
| V | V | VDE 0884 |
| FV | FV | Low profile, surface mount; VDE 0884 |
| SV | SV | Surface mount; VDE 0884 |
| TV | TV | 0.4" Lead bend; VDE 0884 |
| FR2 | FR2 | Low profile, surface mount; T&R |
| FR2V | FR2V | Low profile, surface mount; T&R; VDE 0884 |
| SR2 | SR2 | Surface mount; T&R |
| SR2V | SR2V | Surface mount; T&R; VDE 0884 |

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Product status/pricing/packaging

| Product | Product status | Pricing* | Package type | Leads | Packing method |
|---------------|-----------------|----------|--------------|-------|----------------|
| MOC3081F-M | Full Production | \$0.63 | N/A | N/A | RAIL |
| MOC3081FR2-M | Full Production | \$0.64 | DIP | 6 | TAPE REEL |
| MOC3081FR2V-M | Full Production | \$0.64 | DIP | 6 | TAPE REEL |
| MOC3081FV-M | Full Production | \$0.63 | N/A | N/A | RAIL |
| MOC3081-M | Full Production | \$0.62 | N/A | N/A | RAIL |
| MOC3081S-M | Full Production | \$0.62 | N/A | N/A | RAIL |
| MOC3081SR2-M | Full Production | \$0.62 | DIP | 6 | TAPE REEL |
| MOC3081SR2V-M | Full Production | \$0.62 | DIP | 6 | TAPE REEL |
| MOC3081SV-M | Full Production | \$0.62 | DIP | 6 | RAIL |
| MOC3081T-M | Full Production | \$0.62 | N/A | N/A | RAIL |
| MOC3081TV-M | Full Production | \$0.62 | N/A | N/A | RAIL |
| MOC3081V-M | Full Production | \$0.62 | N/A | N/A | RAIL |

* 1,000 piece Budgetary Pricing

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Safety agency certificates

| Certificate | Agency | |
|--|---------------|---|
| 310983-01 (95 K) | DEMKO | DEMKO Testing & Certification |
| P01101866 (383 K) | NEMKO | NEMKO |
| CR/0117 (424 K) | BABT | British Approvals Board of Telecommunications |
| 102497 (1629 K) | VDE | VDE Pruf-und Zertifizierungsinstitut |
| 1113639 (111 K) | CSA | Canadian Standards Association |
| 0134082 (136 K) | SEMKO | SEMKO |
| FI 17434 (47 K) | FIMKO | FIMKO |
| E90700, Vol. 2 (254 K) | UL | Underwriters Laboratories Inc. |

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MOC3082-M

6-Pin 800V Zero Crossing Triac Driver Output Coupler

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They are designed for use with a triac in the interface of logic systems to equipment powered from 240 Vac lines, such as solid state relays, industrial controls, motors, solenoids and consumer appliances, etc. Simplifies logic control of 240 Vac power Zero voltage crossing dv/dt of 1500 V/ μ s typical, 600 V/ μ s guaranteed.

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Applications

Recommended for 115/240 Vac rms)

- Solenoid/Valve Controls
- Lighting controls
- Static power switches
- AC motor drives
- Temperature controls
- E.M. contractors
- AC motor starters

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|--------|------------------------|---|
| F | F | Low profile, surface mount |
| S | S | Surface mount |
| T | T | 0.4" Lead bend |
| V | V | VDE 0884 |
| FV | FV | Low profile, surface mount; VDE 0884 |
| SV | SV | Surface mount; VDE 0884 |
| TV | TV | 0.4" Lead bend; VDE 0884 |
| FR2 | FR2 | Low profile, surface mount; T&R |
| FR2V | FR2V | Low profile, surface mount; T&R; VDE 0884 |
| SR2 | SR2 | Surface mount; T&R |
| SR2V | SR2V | Surface mount; T&R; VDE 0884 |

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Product status/pricing/packaging

| Product | Product status | Pricing* | Package type | Leads | Packing method |
|---------------|-----------------|----------|--------------|-------|----------------|
| MOC3082F-M | Full Production | \$0.65 | N/A | N/A | RAIL |
| MOC3082FR2-M | Full Production | \$0.66 | DIP | 6 | TAPE REEL |
| MOC3082FR2V-M | Full Production | \$0.66 | DIP | 6 | TAPE REEL |
| MOC3082FV-M | Full Production | \$0.65 | N/A | N/A | RAIL |
| MOC3082-M | Full Production | \$0.63 | N/A | N/A | RAIL |
| MOC3082S-M | Full Production | \$0.63 | N/A | N/A | RAIL |
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| MOC3082SV-M | Full Production | \$0.63 | DIP | 6 | RAIL |
| MOC3082T-M | Full Production | \$0.63 | N/A | N/A | RAIL |
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| MOC3083FR2V-M | Full Production | \$0.73 | DIP | 6 | TAPE REEL |
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| MOC3083-M | Full Production | \$0.70 | N/A | N/A | RAIL |
| MOC3083S-M | Full Production | \$0.70 | N/A | N/A | RAIL |
| MOC3083SR2-M | Full Production | \$0.71 | DIP | 6 | TAPE REEL |
| MOC3083SR2V-M | Full Production | \$0.71 | DIP | 6 | TAPE REEL |
| MOC3083SV-M | Full Production | \$0.70 | DIP | 6 | RAIL |
| MOC3083T-M | Full Production | \$0.70 | N/A | N/A | RAIL |
| MOC3083TV-M | Full Production | \$0.70 | N/A | N/A | RAIL |
| MOC3083V-M | Full Production | \$0.70 | N/A | N/A | RAIL |

* 1,000 piece Budgetary Pricing

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Safety agency certificates

| Certificate | Agency | |
|--|---------------|---|
| 310983-01 (95 K) | DEMKO | DEMKO Testing & Certification |
| P01101866 (383 K) | NEMKO | NEMKO |
| CR/0117 (424 K) | BABT | British Approvals Board of Telecommunications |
| 102497 (1629 K) | VDE | VDE Pruf-und Zertifizierungsinstitut |
| 1113639 (111 K) | CSA | Canadian Standards Association |
| 0134082 (136 K) | SEMKO | SEMKO |
| FI 17434 (47 K) | FIMKO | FIMKO |
| E90700, Vol. 2 (254 K) | UL | Underwriters Laboratories Inc. |

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Former Motorola Products Now Supplied by Fairchild

Select a product number to download its datasheet in PDF format ([Adobe Acrobat Reader](#) required). A **-M** suffix indicates a former Motorola product.

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| 4N27-M | 4N28-M | 4N29-M replaced by 4N29 |
| 4N29A-M replaced by 4N29 | 4N30-M replaced by 4N30 | 4N31-M replaced by 4N31 |
| 4N32-M replaced by 4N32 | 4N33-M replaced by 4N33 | 4N35-M |
| 4N36-M | 4N37-M | 4N38-M replaced by 4N38 |
| 4N38A-M replaced by 4N38 | | |

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| H11AV1A-M | H11AV2-M | H11AV2A-M |
| H11B1-M replaced by H11B1 | H11B3-M replaced by H11B3 | H11D1-M replaced by H11D1 |
| H11D2-M replaced by H11D2 | H11G1-M replaced by H11G1 | H11G2-M replaced by H11G2 |
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| MOC3010-M | MOC3011-M | MOC3012-M |
| MOC3020-M | MOC3021-M | MOC3022-M |
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