



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

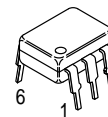
Rating	Symbol	Value	Unit
INPUT LED			
Reverse Voltage	V_R	6	Volts
Forward Current — Continuous	I_F	60	mA
Total Power Dissipation @ $T_A = 25^\circ\text{C}$ Negligible Power in Output Driver Derate above 25°C	P_D	120	mW
		1.41	mW/°C
OUTPUT DRIVER			
Off-State Output Terminal Voltage	V_{DRM}	800	Volts
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 Range	T_{stg}	-40 to +150	°C
Soldering Temperature (10 s)	T_L	260	°C

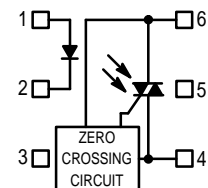
1. Isolation surge voltage, V_{ISO} , is an internal device dielectric breakdown rating. For this test, Pins 1 and 2 are common, and Pins 4, 5 and 6 are common.

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
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

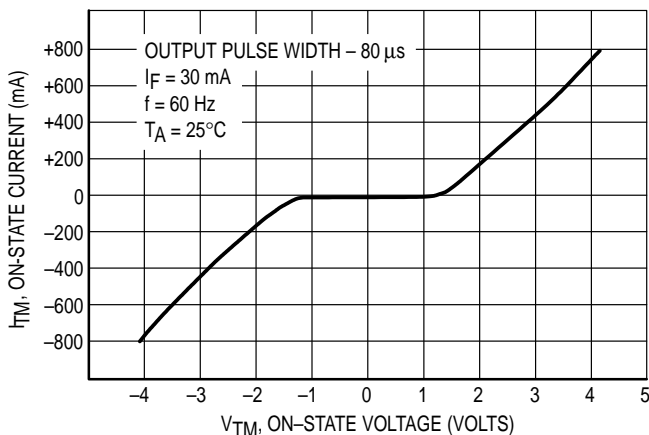


Figure 1. On-State Characteristics

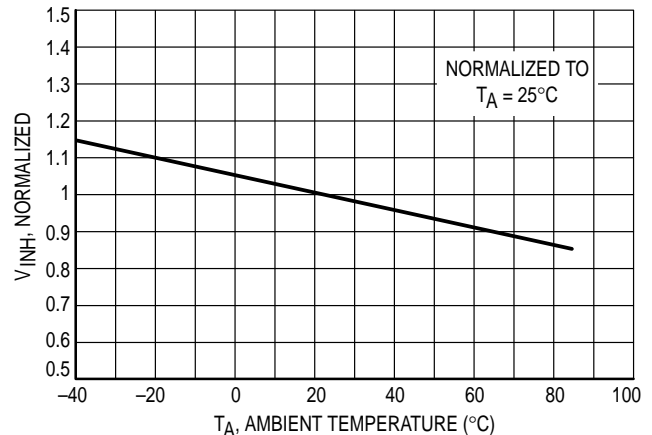


Figure 2. Inhibit Voltage versus Temperature

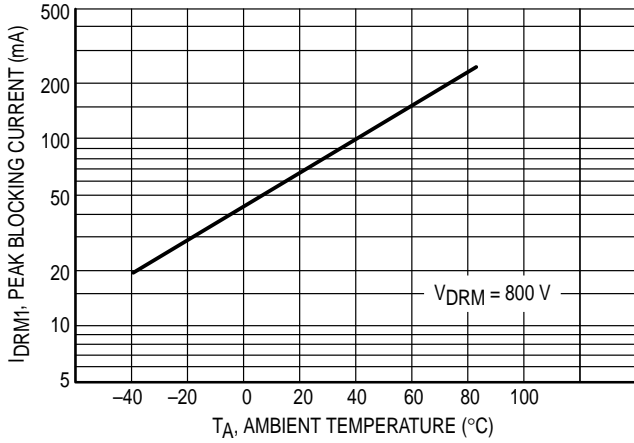


Figure 3. Leakage with LED Off versus Temperature

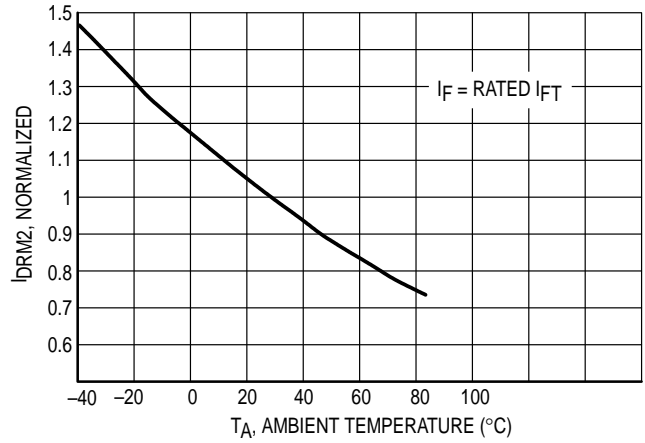


Figure 4. I_{DRM2}, Leakage in Inhibit State versus Temperature

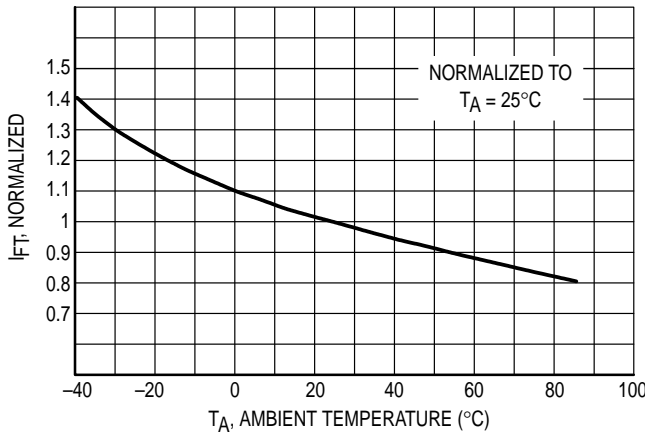


Figure 5. Trigger Current versus Temperature

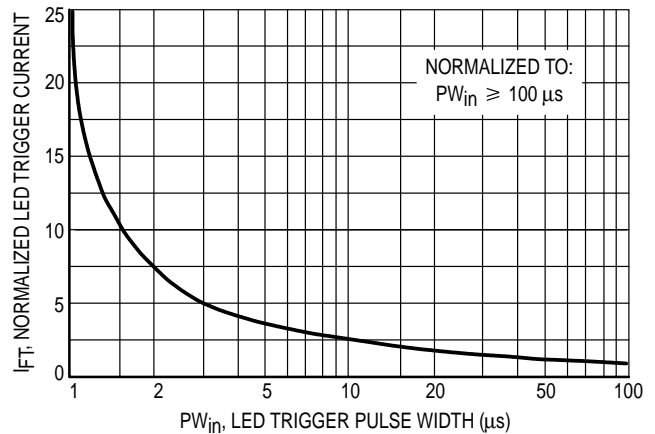


Figure 6. LED Current Required to Trigger versus LED Pulse Width

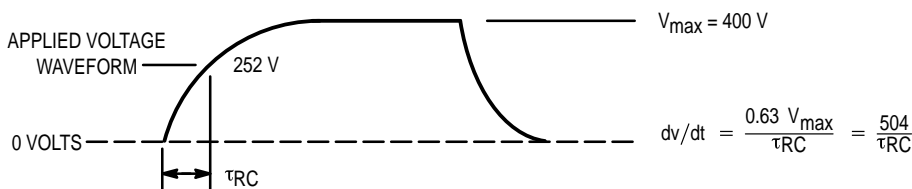
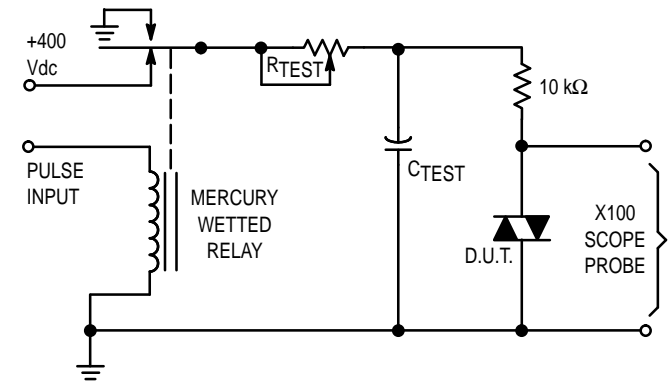
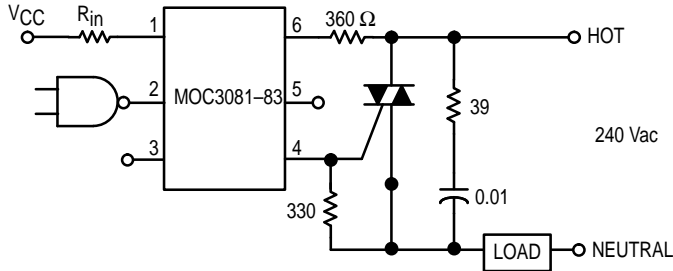


Figure 7. Static dv/dt Test Circuit

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.

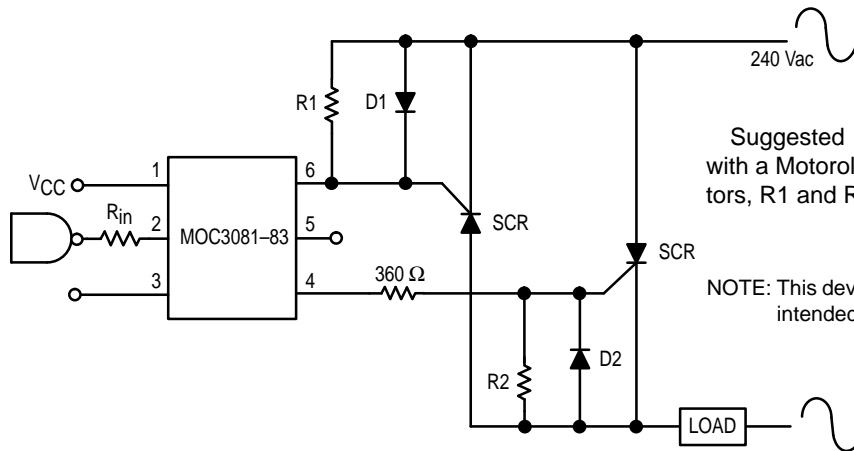


Typical circuit for use when hot line switching is required. In this circuit the "hot" side of the line is switched and the load connected to the cold or neutral side. The load may be connected to either the neutral or hot line.

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

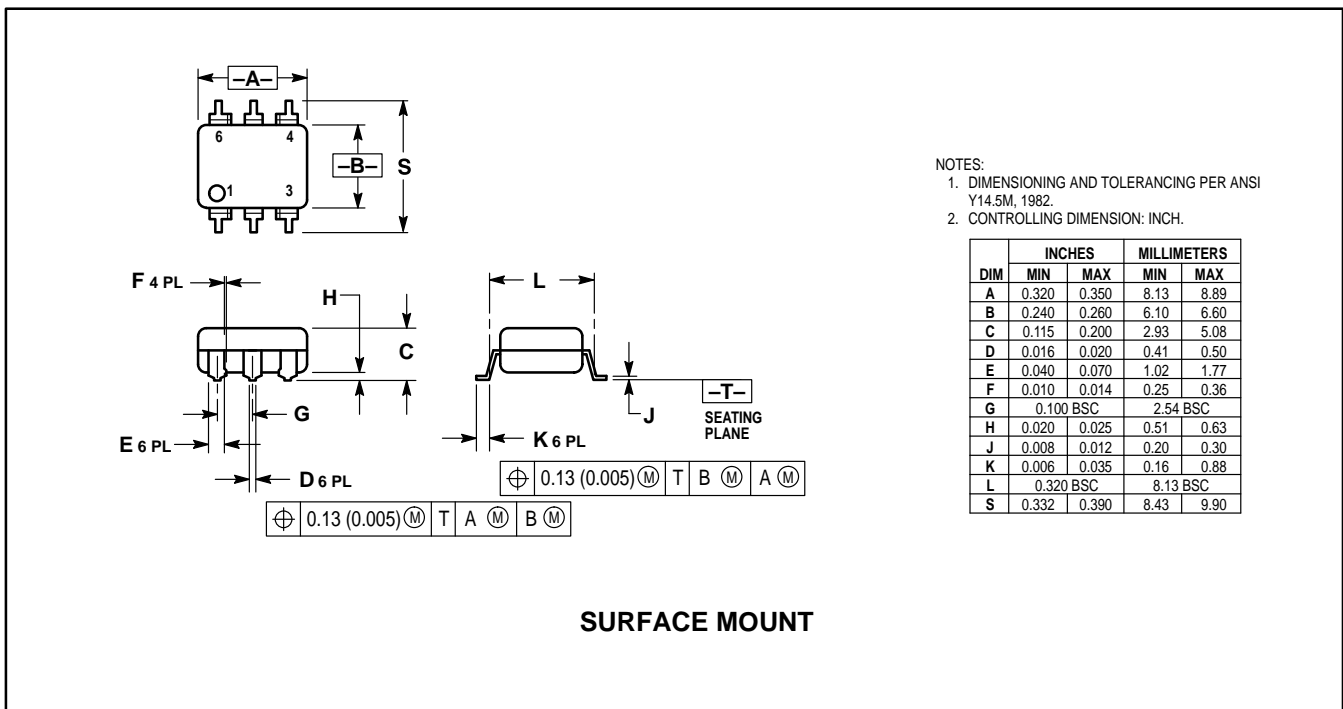
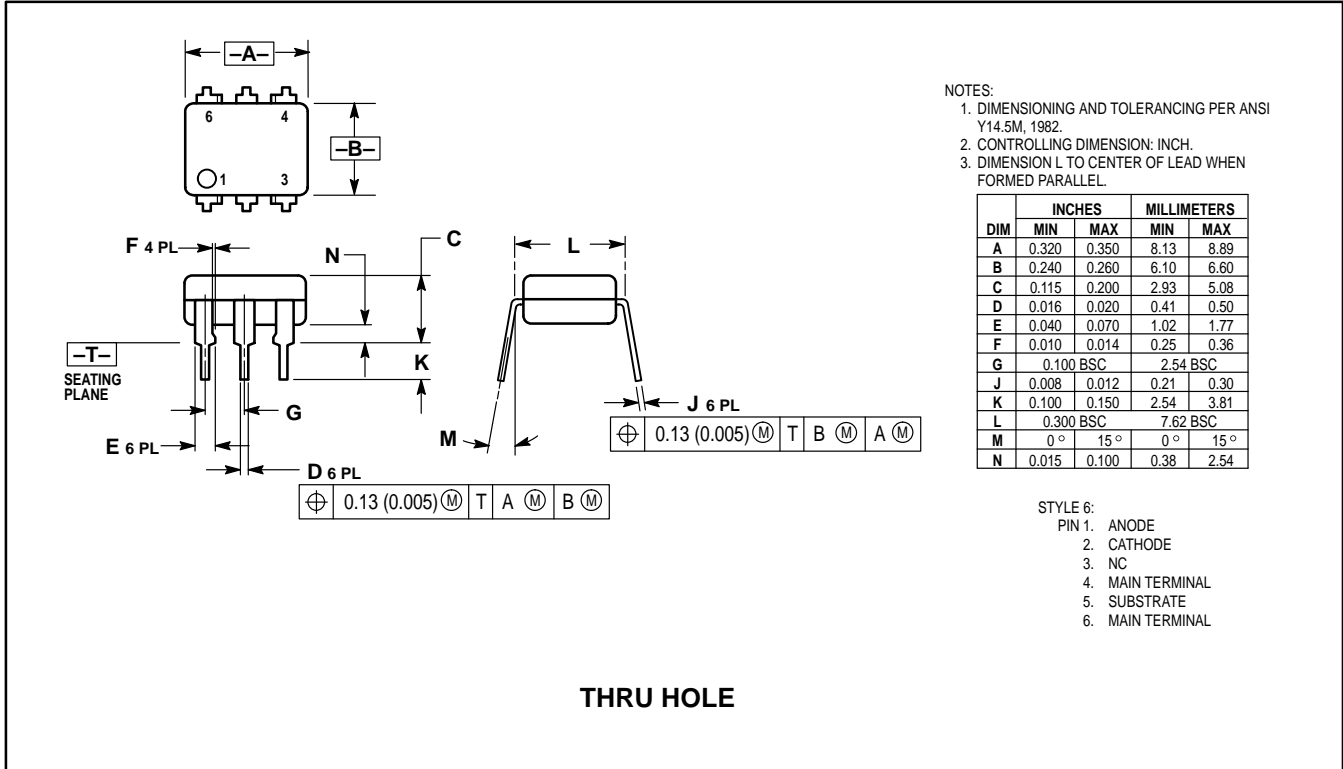


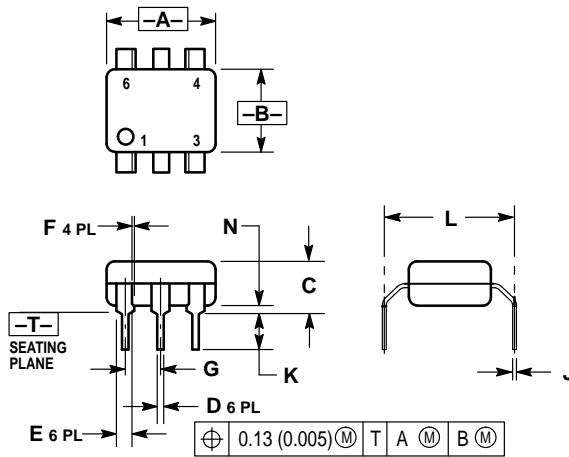
Suggested method of firing two, back-to-back SCR's, with a Motorola triac driver. Diodes can be 1N4001; resistors, R1 and R2, are optional 330 ohms.

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

The MOC3081, MOC3082 and MOC3083 devices consist of a gallium arsenide infrared emitting diodes optically coupled to a monolithic silicon detectors performing the functions 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/ 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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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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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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General description

The MOC3081, MOC3082 and MOC3083 devices consist of a gallium arsenide infrared emitting diodes optically coupled to a monolithic silicon detectors performing the functions 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/ 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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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
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
MOC3082SR2-M	Full Production	\$0.64	DIP	6	TAPE REEL
MOC3082SR2V-M	Full Production	\$0.64	DIP	6	TAPE REEL
MOC3082SV-M	Full Production	\$0.63	DIP	6	RAIL
MOC3082T-M	Full Production	\$0.63	N/A	N/A	RAIL
MOC3082TV-M	Full Production	\$0.63	N/A	N/A	RAIL
MOC3082V-M	Full Production	\$0.63	N/A	N/A	RAIL

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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
MOC3083F-M	Full Production	\$0.72	N/A	N/A	RAIL
MOC3083FR2-M	Full Production	\$0.73	DIP	6	TAPE REEL
MOC3083FR2V-M	Full Production	\$0.73	DIP	6	TAPE REEL
MOC3083FV-M	Full Production	\$0.72	N/A	N/A	RAIL
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

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Former Motorola Products Now Supplied by Fairchild

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