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SEMICONDUCTOR™

GlobalOptoisolator™

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MOC3061
MOC3062
MOC3063

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

The MOC3061, MOC3062 and MOC3063 devices consist of gallium arsenide infrared emitting diodes optically coupled to 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 115/240 Vac lines, such as solid–state relays, industrial controls, motors, solenoids and consumer appliances, etc.

- Simplifies Logic Control of 115/240 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 115/240 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

STANDARD THRU HOLE

COUPLER SCHEMATIC

ZERO CROSSING CIRCUIT

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

MAXIMUM RATINGS

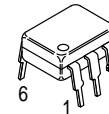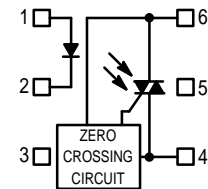| Rating	Symbol	Value	Unit
INFRARED EMITTING DIODE			
Reverse Voltage	V_R	6	Volts
Forward Current — Continuous	I_F	60	mA
Total Power Dissipation @ T_A = 25°C Negligible Power in Output Driver Derate above 25°C	P_D	120 1.41	mW mW/°C
OUTPUT DRIVER			
Off–State Output Terminal Voltage	V_{DRM}	600	Volts
Peak Repetitive Surge Current (PW = 100 μs, 120 pps)	I_{TSM}	1	A
Total Power Dissipation @ T_A = 25°C Derate above 25°C	P_D	150 1.76	mW 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°C Derate above 25°C	P_D	250 2.94	mW 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.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

| Characteristic	Symbol	Min	Typ	Max	Unit
INPUT LED					
Reverse Leakage Current (V_R = 6 V)	I_R	—	0.05	100	µA
Forward Voltage (I_F = 30 mA)	V_F	—	1.3	1.5	Volts
OUTPUT DETECTOR (I_F = 0)					
Leakage with LED Off, Either Direction (Rated V_{DRM}[1])	I_{DRM1}	—	60	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 V[2])   MOC3061
                                      MOC3062
                                      MOC3063
	I_{FT}	—
		—
		—
			—
			—
			—
				15
				10
				5
					mA

Peak On–State Voltage, Either Direction (I_{TM} = 100 mA, I_F = Rated I_{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 = Rated I_{FT})	V_{INH}	—	5	20	Volts
Leakage in Inhibited State (I_F = Rated I_{FT}, Rated V_{DRM}, Off State)	I_{DRM2}	—	—	500	µA
Isolation Voltage (f = 60 Hz, t = 1 sec)	V_{ISO}	7500	—	—	Vac(pk)

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 MOC3061, 10 mA for MOC3062, 5 mA for MOC3063) 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.
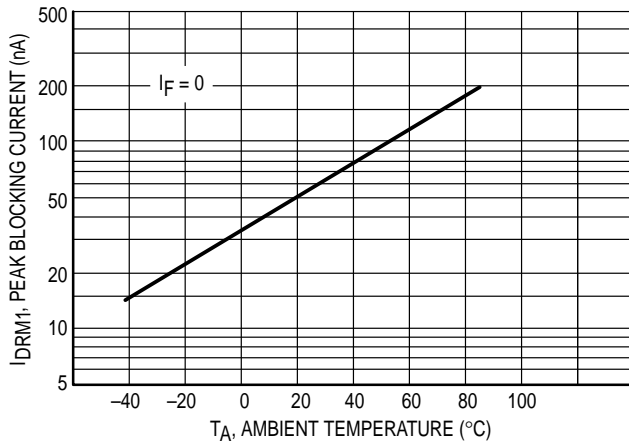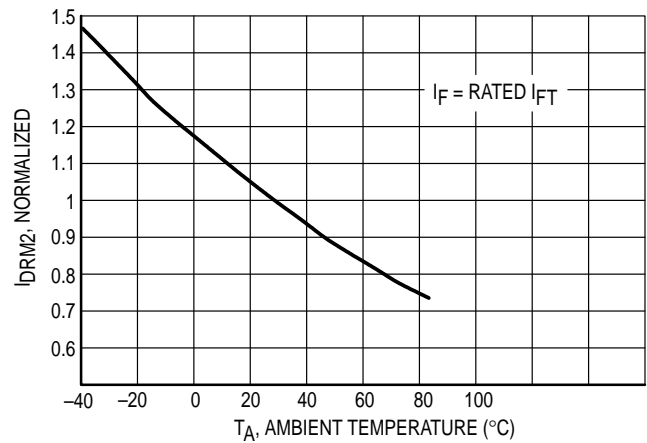
TYPICAL CHARACTERISTICS

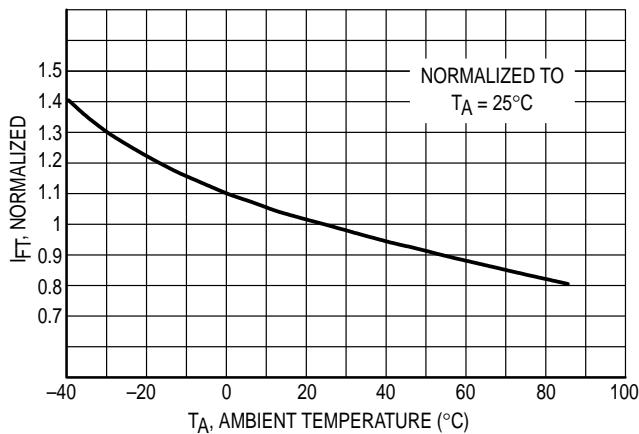T_A = 25°C
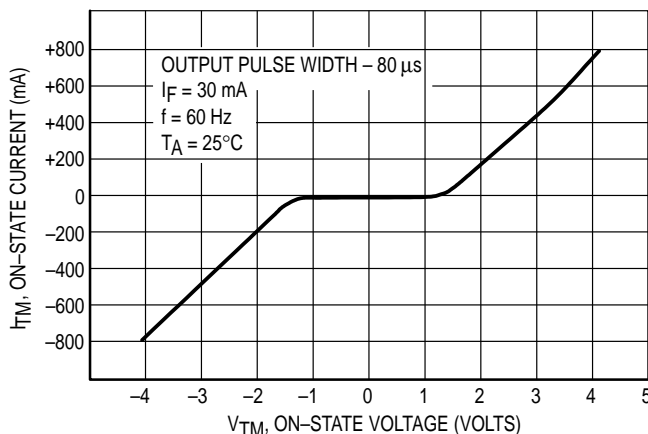
Figure 1. On–State Characteristics
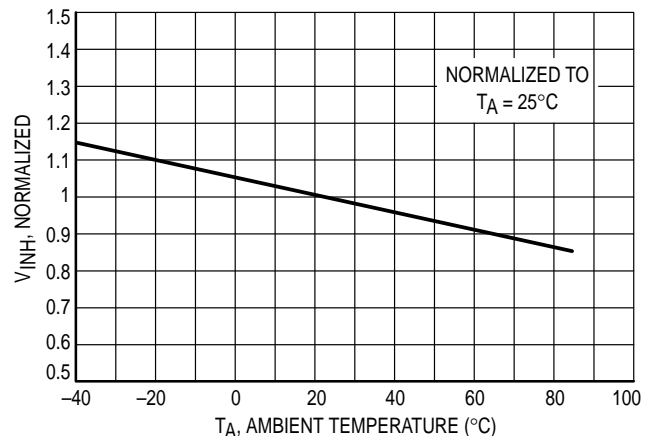
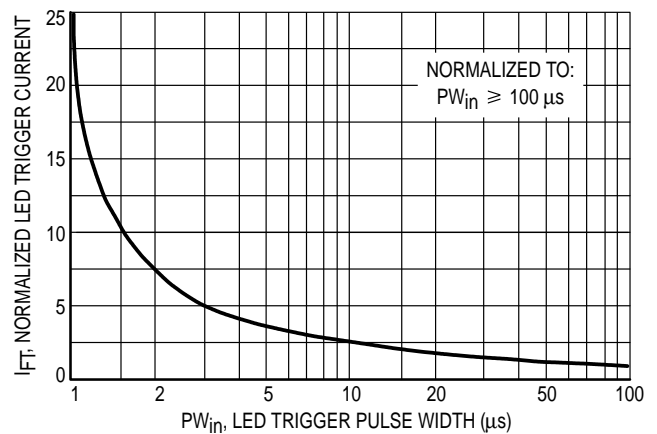Figure 2. Inhibit Voltage versus Temperature

**Figure 3. Leakage with LED Off
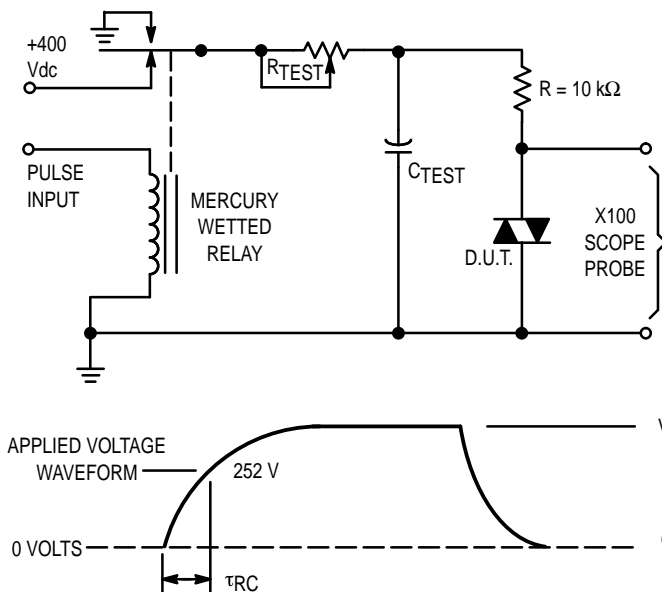versus Temperature**

**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**

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.

$$dv/dt = \frac{0.63\ V_{max}}{\tau_{RC}} = \frac{378}{\tau_{RC}}$$

Figure 7. Static dv/dt Test Circuit
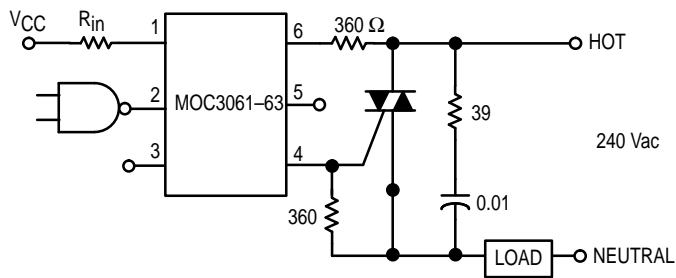
Typical circuit for use when hot line switching is required. In this circuit the "hot" side of the line is switched and the load connected to the cold or neutral side. The load may be connected to either the neutral or hot line.

R_{in} is calculated so that I_F is equal to the rated I_{FT} of the part, 15 mA for the MOC3061, 10 mA for the MOC3062, and 5 mA for the MOC3063. 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.

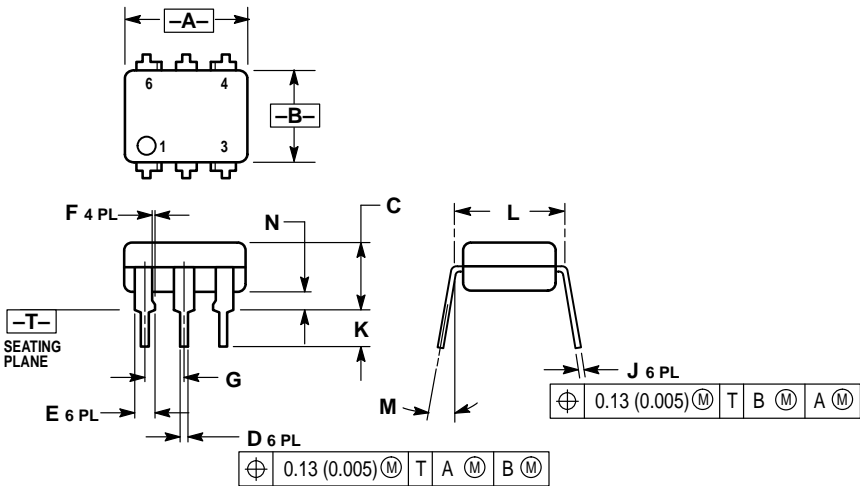**Figure 8. Hot–Line Switching Application Circuit**
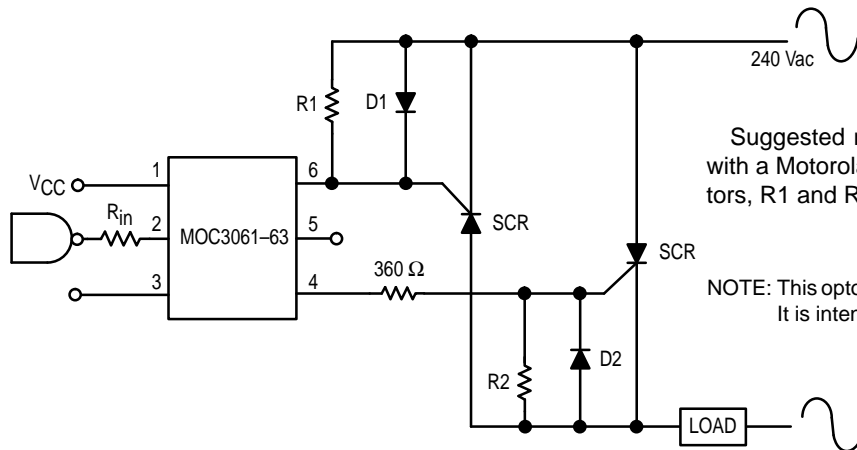
Suggested method of firing two, back–to–back SCR's, with a Motorola triac driver. Diodes can be 1N4001; resistors, R1 and R2, are optional 330 ohms.

NOTE: This optoisolator 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
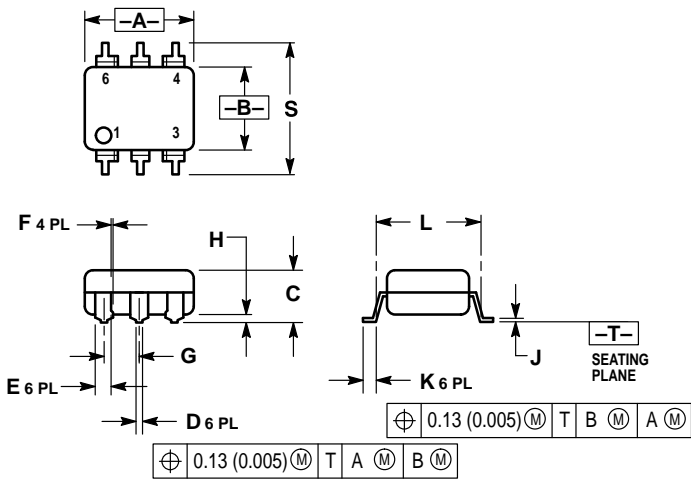
PACKAGE DIMENSIONS

THRU HOLE

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	0.300 BSC		7.62 BSC	
M	0 °	15 °	0 °	15 °
N	0.015	0.100	0.38	2.54

STYLE 6:
PIN 1. ANODE
2. CATHODE
3. NC
4. MAIN TERMINAL
5. SUBSTRATE
6. MAIN TERMINAL

SURFACE MOUNT
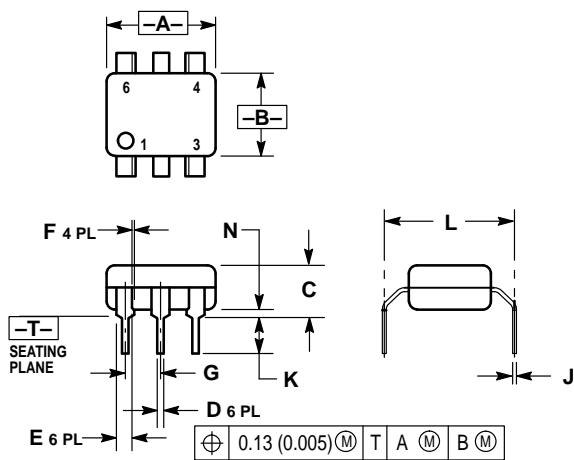
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C	0.115	0.200	2.93	5.08
D	0.016	0.020	0.41	0.50
E	0.040	0.070	1.02	1.77
F	0.010	0.014	0.25	0.36
G	0.100 BSC		2.54 BSC	
H	0.020	0.025	0.51	0.63
J	0.008	0.012	0.20	0.30
K	0.006	0.035	0.16	0.88
L	0.320 BSC		8.13 BSC	
S	0.332	0.390	8.43	9.90

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

DISCLAIMER

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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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6-Pin 600V Zero Crossing Triac Driver Output Coupler

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General description

The MOC3061, MOC3062 and MOC3063 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 115/240 Vac lines, such as solid state relays, industrial controls, motors, solenoids and consumer appliances, etc. Simplifies logic control of 115/240 Vac power Zero voltage crossing dv/dt of 1500 V/µs typical, 600 V/µs 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

- 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.

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

Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
MOC3061F-M	Full Production	$0.44	N/A	N/A	RAIL
MOC3061FR2-M	Full Production	$0.448	DIP	6	TAPE REEL
MOC3061FR2V-M	Full Production	$0.448	DIP	6	TAPE REEL
MOC3061FV-M	Full Production	$0.44	N/A	N/A	RAIL
MOC3061-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3061S-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3061SR2-M	Full Production	$0.431	DIP	6	TAPE REEL
MOC3061SR2V-M	Full Production	$0.431	DIP	6	TAPE REEL
MOC3061SV-M	Full Production	$0.422	DIP	6	RAIL
MOC3061T-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3061TV-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3061V-M	Full Production	$0.422	N/A	N/A	RAIL

* 1,000 piece Budgetary Pricing

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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
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MOC3062-M
6-Pin 600V Zero Crossing Triac Driver Output Coupler

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General description

The MOC3061, MOC3062 and MOC3063 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 115/240 Vac lines, such as solid state relays, industrial controls, motors, solenoids and consumer appliances, etc. Simplifies logic control of 115/240 Vac power Zero voltage crossing dv/dt of 1500 V/μs typical, 600 V/μs guaranteed.

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Applications

Recommended for 115/240 Vac rms)

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

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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

Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
MOC3062F-M	Full Production	$0.44	N/A	N/A	RAIL
MOC3062FR2-M	Full Production	$0.448	DIP	6	TAPE REEL
MOC3062FR2V-M	Full Production	$0.448	DIP	6	TAPE REEL
MOC3062FV-M	Full Production	$0.44	N/A	N/A	RAIL
MOC3062-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3062S-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3062SR2-M	Full Production	$0.431	DIP	6	TAPE REEL
MOC3062SR2V-M	Full Production	$0.431	DIP	6	TAPE REEL
MOC3062SV-M	Full Production	$0.422	DIP	6	RAIL
MOC3062T-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3062TV-M	Full Production	$0.422	N/A	N/A	RAIL
MOC3062V-M	Full Production	$0.422	N/A	N/A	RAIL

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FR2V	FR2V	Low profile, surface mount; T&R; VDE 0884
SR2	SR2	Surface mount; T&R
SR2V	SR2V	Surface mount; T&R; VDE 0884

Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
MOC3063F-M	Full Production	$0.493	N/A	N/A	RAIL
MOC3063FR2-M	Full Production	$0.50	DIP	6	TAPE REEL
MOC3063FR2V-M	Full Production	$0.50	DIP	6	TAPE REEL
MOC3063FV-M	Full Production	$0.493	N/A	N/A	RAIL
MOC3063-M	Full Production	$0.475	N/A	N/A	RAIL
MOC3063S-M	Full Production	$0.475	N/A	N/A	RAIL
MOC3063SR2-M	Full Production	$0.484	DIP	6	TAPE REEL
MOC3063SR2V-M	Full Production	$0.484	DIP	6	TAPE REEL
MOC3063SV-M	Full Production	$0.475	DIP	6	RAIL
MOC3063T-M	Full Production	$0.475	N/A	N/A	RAIL
MOC3063TV-M	Full Production	$0.475	N/A	N/A	RAIL
MOC3063V-M	Full Production	$0.475	N/A	N/A	RAIL

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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
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