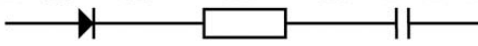


MOC3060, MOC3061, MOC3062, MOC3063
MOC3060X, MOC3061X, MOC3062X, MOC3063X



ISOCOM

COMPONENTS



**OPTICALLY COUPLED BILATERAL
 SWITCH LIGHT ACTIVATED ZERO
 VOLTAGE CROSSING TRIAC**

'X' SPECIFICATION APPROVALS

- VDE 0884 in 3 available lead form : -
 - STD
 - G form
 - SMD approved to CECC 00802
- -UL recognised File No. E91231
 Package system " TT "

DESCRIPTION

The MOC306_ Series are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a monolithic silicon detector performing the functions of a zero crossing bilateral triac mounted in a standard 6 pin dual-in-line package.

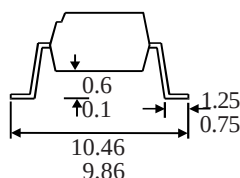
FEATURES

- Options :-
 10mm lead spread - add G after part no.
 Surface mount - add SM after part no.
 Tape&reel - add SMT&R after part no.
- High Isolation Voltage, 5.3kV_{RMS}
- Zero Voltage Crossing
- 600V Peak Blocking Voltage
- All electrical parameters 100% tested
- Custom electrical selections available

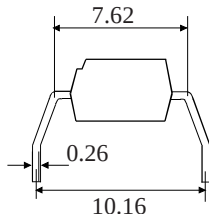
APPLICATIONS

- CRTs
- Power Triac Driver
- Motors
- Consumer appliances

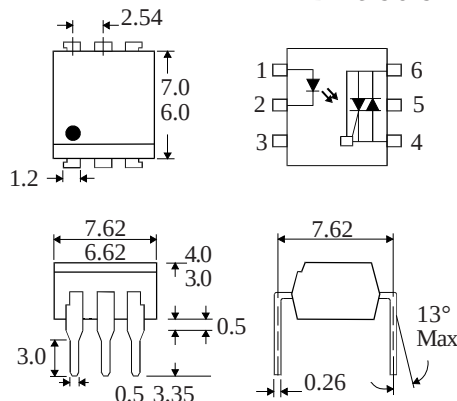
**OPTION SM
 SURFACE MOUNT**



OPTION G



Dimensions in mm



ABSOLUTE MAXIMUM RATINGS
 (25 °C unless otherwise noted)

Storage Temperature _____ -55°C - +150°C
 Operating Temperature _____ -40°C - +100°C
 Lead Soldering Temperature _____ 260°C
 (1.6mm from case for 10 seconds)

INPUT DIODE

Forward Current _____ 50mA
 Reverse Voltage _____ 6V
 Power Dissipation _____ 120mW
 (derate linearly 1.41mW/°C above 25°C)

OUTPUT PHOTO TRIAC

Off-State Output Terminal Voltage _____ 600V
 Forward Current (Peak) _____ 1A
 Power Dissipation _____ 150mW
 (derate linearly 1.76mW/°C above 25°C)

POWER DISSIPATION

Total Power Dissipation _____ 250mW
 (derate linearly 2.94mW/°C above 25°C)

ISOCOM COMPONENTS 2004 LTD

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 sales@isocom.co.uk http://www.isocom.com

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

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.4	V	$I_F = 20\text{mA}$
	Reverse Current (I_R)		0.05	10	μA	$V_R = 6\text{V}$
Output	Peak Off-state Current (I_{DRM})	600		500	nA	$V_{\text{DRM}} = 600\text{V}$ (note 1)
	Peak Blocking Voltage (V_{DRM})				V	$I_{\text{DRM}} = 500\text{nA}$
	On-state Voltage (V_{TM})			3.0	V	$I_{\text{TM}} = 100\text{mA}$ (peak)
	Critical rate of rise of off-state Voltage (dv/dt)	600	1500		V/ μs	
Coupled	Input Current to Trigger (I_{FT})(note 2) MOC3060 MOC3061 MOC3062 MOC3063	5300	400	30 15 10 5	mA mA mA mA	$V_{\text{TM}} = 3\text{V}$ (note 2)
	Holding Current , either direction (I_H) Input to Output Isolation Voltage V_{ISO}				μA V_{RMS}	See note 3
Zero Crossing Characteristic	Inhibit Voltage (V_{IH})			20	V	$I_F = \text{Rated } I_{\text{FT}}$ MT1-MT2 Voltage above which device will not trigger
	Leakage in Inhibited State (I_S)			500	μA	$I_F = \text{Rated } I_{\text{FT}}$ $V_{\text{DRM}} = 600\text{V}$ off-state

Note 1. Test voltage must be applied within dv/dt rating.

Note 2. Guaranteed to trigger at an I_F value less than or equal to max. I_{FT} , recommended I_F lies between Rated I_{FT} and absolute max. I_F .

Note 3. Measured with input leads shorted together and output leads shorted together.