

MOC3080, MOC3081, MOC3082, MOC3083
MOC3080X, MOC3081X, MOC3082X, MOC3083X



ISOCOM

COMPONENTS

OPTICALLY COUPLED BILATERAL SWITCH LIGHT ACTIVATED ZERO VOLTAGE CROSSING TRIAC



"X" SPECIFICATION APPROVAL

- VDE 0884 in 3 available lead forms :-
- STD
- G Form (10.16 pitch)
- SMD approved to CECC000802

DESCRIPTION

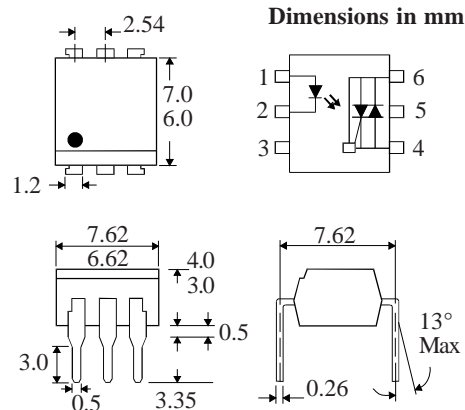
The MOC308_ Series are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a monolithic silicon detector performing the functions of a zero crossing bilateral triac mounted in a standard 6 pin dual-in-line package.

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
- 800V Peak Blocking Voltage
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

- CRTs
- Power Triac Driver
- Motors
- Consumer appliances
- Printers



ABSOLUTE MAXIMUM RATINGS (25 °C unless otherwise noted)

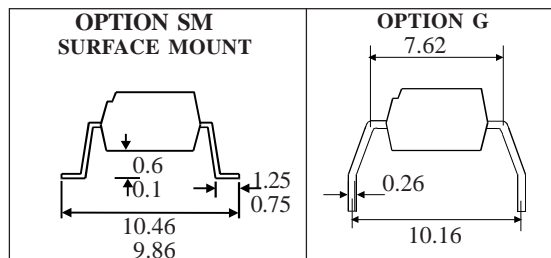
Storage Temperature _____ -55°C - +125°C
Operating Temperature _____ -30°C - +100°C
Lead Soldering Temperature _____ 260°C
(1.6mm from case for 10 seconds)

INPUT DIODE

Forward Current _____ 50mA
Reverse Voltage _____ 6V

OUTPUT PHOTOTRIAC

RMS on-state current _____ 0.1A
Peak one cycle surge current
(50Hz sine wave) _____ 1.2A
Peak Off-State Voltage _____ 800V



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

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F) Reverse Current (I_R)		1.2	1.4 10	V μA	$I_F = 20\text{mA}$ $V_R = 6\text{V}$
Output	Peak Off-state Current (I_{DRM}) Peak Blocking Voltage (V_{DRM}) On-state Voltage (V_{TM}) Critical rate of rise of off-state Voltage (dv/dt)	800		500 3.0	nA V V $\text{V}/\mu\text{s}$	$V_{\text{DRM}} = 800\text{V}$ (note 1) $I_{\text{DRM}} = 500\text{nA}$ $I_{\text{TM}} = 100\text{mA}$ (peak)
Coupled	Input Current to Trigger (I_{FT})(note 2) MOC3080 MOC3081 MOC3082 MOC3083 Holding Current , either direction (I_H) Input to Output Isolation Voltage V_{ISO}			30 15 10 5	mA mA mA mA μA V_{RMS}	$V_{\text{TM}} = 3\text{V}$ (note 2) See note 3
Zero Crossing Charact- -eristic	Inhibit Voltage (V_{IH})			20	V	$I_F = \text{Rated } I_{\text{FT}}$ MT1-MT2 Voltage above which device will not trigger

Note 1. 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 2. Measured with input leads shorted together and output leads shorted together.

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