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

ISOCOM COMPONENTS

OPTICALLY COUPLED BILATERAL SWITCH LIGHT ACTIVATED ZERO VOLTAGE CROSSING TRIAC

ROHS COMPLIANT

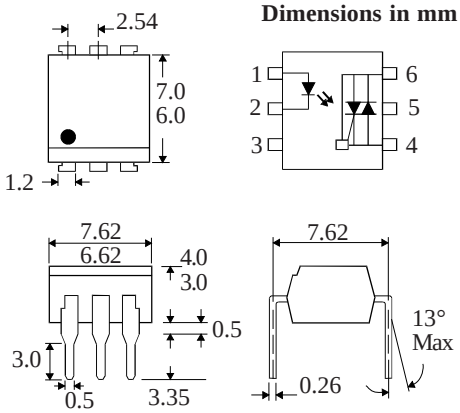
"X" SPECIFICATION APPROVAL

- 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.

Dimensions in mm



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^{0}C - +125^{0}C
Operating Temperature	-30^{0}C - +100^{0}C
Lead Soldering Temperature (1.6mm from case for 10 seconds)	260^{0}C

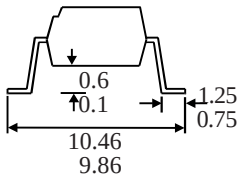
INPUT DIODE

Forward Current	50mA
Reverse Voltage	6V

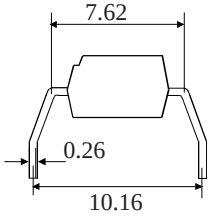
OUTPUT PHOTOTRIAC

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

OPTION SM
SURFACE MOUNT



OPTION G



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ELECTRICAL CHARACTERISTICS (T_A = 25°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 = 20mA V_R = 6V
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)	 800 600		500 3.0 	nA V V V/µs	V_{DRM} = 800V (note 1) I_{DRM} = 500nA I_{TM} = 100mA (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}	 5300	 400	 30 15 10 5 	 mA mA mA mA µA V_{RMS}	 V_{TM} = 3V (note 2) See note 3
Zero Crossing Charact--eristic	Inhibit Voltage (V_{IH})			20	V	I_F = Rated I_{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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