



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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



ISOCOM

COMPONENTS



OPTICALLY COUPLED BILATERAL SWITCH LIGHT ACTIVATED ZERO VOLTAGE CROSSING TRIAC

"X" SPECIFICATION APPROVAL

- VDE0884 in 3 available lead forms :-
- STD
- G Form (10.16 pitch)
- SMD approved to CECC000802

DESCRIPTION

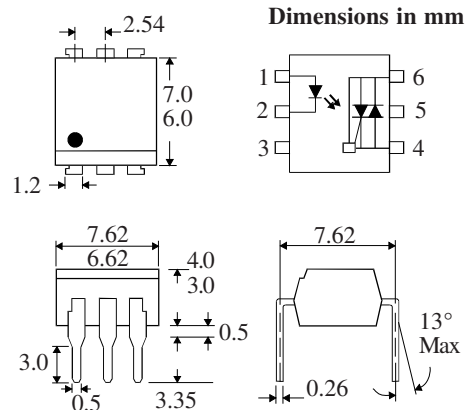
The MOC308_ Series are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a monolithic silicon detector performing the functions of a zero crossing bilateral triac mounted in a standard 6 pin dual-in-line package.

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)

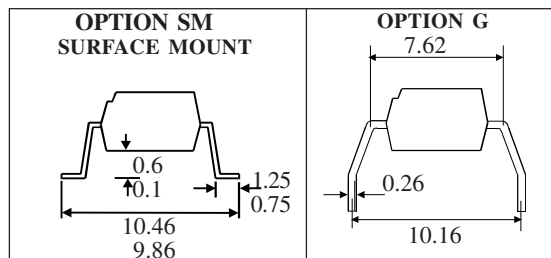
Storage Temperature _____ -55°C - +125°C
Operating Temperature _____ -30°C - +100°C
Lead Soldering Temperature _____ 260°C
(1.6mm from case for 10 seconds)

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.