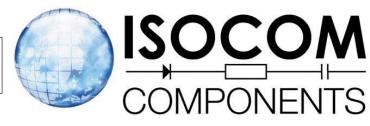
MOC3080, MOC3081, MOC3082, MOC3083 MOC3080X, MOC3081X, MOC3082X, MOC3083X



OPTICALLY COUPLED BILATERAL SWITCH LIGHTACTIVATED ZERO VOLTAGE CROSSING TRIAC



"X" SPECIFICATION APPROVAL

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

DESCRIPTION

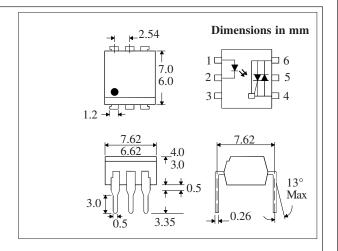
The MOC308_ Series are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a monolithic silicon detector performing the functions of a zero crossing bilateral triac mounted in a standard 6 pin dual-in-line package.

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)

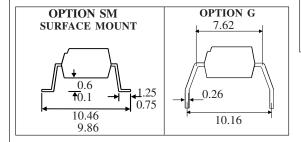
Storage Temperature	55°C-+125°C			
Operating Temperature	$_{-}30^{\circ}\text{C} - +100^{\circ}\text{C}$			
Lead Soldering Temperature_	260°C			
(1.6mm from case for 10 seconds)				

INPUTDIODE

Forward Current	50mA
Reverse Voltage	6V

OUTPUTPHOTOTRIAC

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



ISOCOM COMPONENTS LTD

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DB92698

ELECTRICAL CHARACTERISTICS ($\rm T_{_{\rm A}}$ = 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 A	$I_{F} = 20\text{mA}$ $V_{R} = 6V$
Output	Peak Off-state Current (I_{DRM}) Peak Blocking Voltage (V_{DRM}) On-state Voltage (V_{TM})	800		500 3.0	nA V V	$V_{DRM} = 800 V \text{ (note 1)}$ $I_{DRM} = 500 nA$ $I_{TM} = 100 mA \text{ (peak)}$
	off-state Voltage (dv/dt)	600			V/ s	
Coupled	Input Current to Trigger (I _{FT})(note 2) MOC3080 MOC3081 MOC3082 MOC3083			30 15 10 5	mA mA mA	$V_{TM} = 3V \text{ (note 2)}$
	Holding Current , either direction ($I_{_{\rm H}})$ Input to Output Isolation Voltage $V_{_{\rm ISO}}$	5300	400		$\begin{matrix} A \\ V_{\text{RMS}} \end{matrix}$	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.

DB92698 28/11/08