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



OPTICALLY COUPLED BILATERAL SWITCH LIGHT ACTIVATED 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.

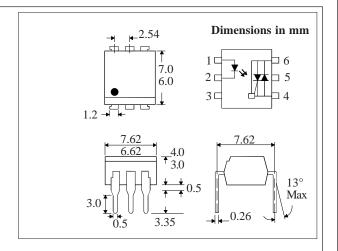
FEATURES

- 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)

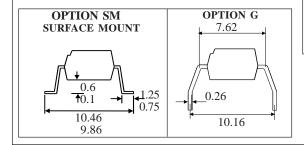
Storage Temperature	55°C-+125°C
Operating Temperature	$-30^{\circ}\text{C} - +100^{\circ}\text{C}$
Lead Soldering Temperature_	260°C
(1.6mm from case for 10 secon	ds)

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

Unit 25B, Park View Road West, Park View Industrial Estate, Brenda Road Hartlepool, TS25 1UD England Tel: (01429)863609 Fax: (01429)863581 e-mail sales@isocom.co.uk

DB92698

ELECTRICAL CHARACTERISTICS ($\rm T_{_{A}} = 25^{\circ}C$ 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	$I_{\rm F} = 20 \text{mA}$ $V_{\rm R} = 6 \text{V}$
Output	Peak Off-state Current (I_{DRM}) Peak Blocking Voltage (V_{DRM}) On-state Voltage (V_{TM})	800		500 3.0	nA V V	$V_{DRM} = 800 V \text{ (note 1)}$ $I_{DRM} = 500 nA$ $I_{TM} = 100 mA \text{ (peak)}$
	Critical rate of rise of off-state Voltage (dv/dt)	600			V/µs	
Coupled	Input Current to Trigger (I _{FT})(note 2) MOC3080 MOC3081 MOC3082 MOC3083			30 15 10 5	mA mA mA mA	$V_{TM} = 3V \text{ (note 2)}$
	$\begin{aligned} & \text{Holding Current , either direction (I}_{\text{H}}) \\ & \text{Input to Output Isolation Voltage V}_{\text{ISO}} \end{aligned}$	5300	400		μA V_{RMS}	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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for High Speed Optocouplers category:

Click to view products by Isocom manufacturer:

Other Similar products are found below:

6N136F PS8502L2-AX ACNW261L-000E ACPL-344JT-000E ACPL-K49T-500E ACPL-K74T-000E ACPL-K75T-000E ACPL-W21L-560E ACPL-K44T-500E TLP187(TPL,E(T TLP2601(TP1,F) 610737H 6N137A-X001 6N137A-X017T 6N139-X007T HCPL2630M HCPL2731SM TLP555(F) HCPL2630SM PS2841-4A-F3-AX PS9817A-1-F3-AX PS9821-2-F3-AX ORPC-817D ORPC-817M/C ORPC-817M/B PT17-51C/L129(BIN2) TLP521-4GBSM UMW817C 6N137S1(TA) TLP521GB TLP521GB-S PS2501 PS2501-S TLP785GB TLP785GB-S LTV-214-G TLP2766A(E TLP2766A(LF4,E LCR-0202 EL814S1(TA)-V PC817X4NSZ2B CYPC817 OR-MOC3023 TLP267J(TPL,E(T TLP109(TPL,E(O EL2514S1(TU)(CLW)-G EL816S2(C)(TU)-F TLP281-4 MOC3023M ACPL-K49T-060E