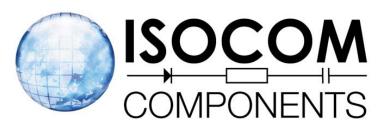
MOC3040, MOC3041, MOC3042, MOC3043 MOC3040X, MOC3041X, MOC3042X, MOC3043X



OPTICALLY COUPLED BILATERAL SWITCH LIGHTACTIVATED ZERO VOLTAGE CROSSING TRIAC



APPROVALS

UL recognised, File No. E91231
 Package Code " TT "

'X'SPECIFICATIONAPPROVALS

- VDE 0884 in 3 available lead form:-
 - STD
 - G form
 - SMD approved to CECC 00802

DESCRIPTION

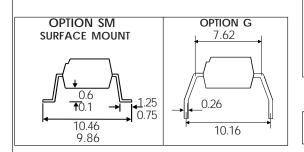
The MOC304_Series are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a monolithic silicon detector performing the functions of a zero crossing bilateral triac mounted in a standard 6 pin dual-in-line package.

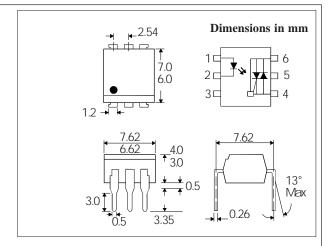
FEATURES

- 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 $(5.3kV_{RMS}, 7.5kV_{PK})$
- Zero Voltage Crossing
- 400V 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)

2 · · · · · · · · · · · · · · · · · · ·	5°C-+150°C 0°C-+100°C
Lead Soldering Temperature	260°C
(1.6mm from case for 10 seconds)	

INPUTDIODE

Forward Current	50mA
Reverse Voltage	6V
Power Dissipation	120mW
(derate linearly 1.41mW/°C a	bove 25°C)

OUTPUT PHOTO TRIAC

Off-State Output Terminal Voltage	400V
Peak Repetitive Surge Current	
(PW=100μs, 120pps)	1A
Power Dissipation	150mW
(derate linearly 1.76mW/°C above 25°C)	

POWER DISSIPATION

Total Power Dissipation	250mW
(derate linearly 2.94mW/°C above 2	25°C)

ISOCOM COMPONENTS 2004 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 http://www.isocom.com

DB91048

ELECTRICAL CHARACTERISTICS ($T_{_{\rm A}}$ = 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 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})	400		500	nA V V	$V_{DRM} = 400 V \text{ (note 1)}$ $I_{DRM} = 500 \text{ nA}$ $I_{TM} = 100 \text{ mA (peak)}$
	Critical rate of rise of off-state Voltage (dv/dt)	600	1500		V/µs	
Coupled	Input Current to Trigger (I _{FT})(note 2) MOC3040 MOC3041 MOC3042 MOC3043			30 15 10 5	mA mA mA	$V_{TM} = 3V \text{ (note 2)}$
	Holding Current , either direction ($\rm I_{\rm H})$ Input to Output Isolation Voltage $\rm V_{\rm ISO}$	5300 7500	400		$\begin{array}{c} \mu A \\ V_{\text{RMS}} \\ V_{\text{PK}} \end{array}$	See note 3 See note 3
Zero Crossing Charact- -eristic	Inhibit Voltage (V_{IH}) Leakage in Inhibited State (I_s)			20	V μΑ	I_F = Rated I_{FT} MT1-MT2 Voltage above which device will not trigger I_F = Rated I_{FT}
	Dearage in minored State (1 _S)			300	μΑ	$V_{DRM} = Rated V_{DRM}$ Off-state

Note 1. Test voltage must be applied within dv/dt rating. Note 2. 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 3. Measured with input leads shorted together and output leads shorted together.

22/5/12 DB91048m-AAS/A8

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