MOC3009X, MOC3010X, MOC3011X, MOC3012X MOC3009, MOC3010, MOC3011, MOC3012



OPTICALLY COUPLED BILATERAL SWITCH NON-ZERO CROSSING **TRIAC**



APPROVALS

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

'X'SPECIFICATIONAPPROVALS

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

DESCRIPTION

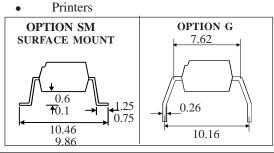
The MOC3009,301_series are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a light activated silicon bilateral switch performing the functions of a triac mounted in a standard 6 pin dual-in-line package.

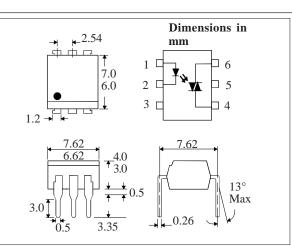
FEATURE

- 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}) 250V Peak Blocking Voltage
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

- **CRTs** .
- Power Triac Driver
- Motors
- Consumer appliances





ABSOLUTE MAXIMUM RATINGS (25 °C unless otherwise noted)

Storage Temperature55°C-+150°C
Operating Temperature40°C -+100°C
Lead Soldering Temperature 260°C
(1.6mm from case for 10 seconds)

INPUTDIODE

Forward Current	50mA
Reverse Voltage	6V
Power Dissipation	70mW
(derate linearly 0.93mW/°C above 25°C)

OUTPUT PHOTO TRIAC

Off-State Output Terminal Voltage	250V
Forward Current (Peak)	1A
Power Dissipation	300mW
(derate linearly $4.0 \text{mW}/^{\circ}\text{C}$ above 25°C)	

POWER DISSIPATION

Total Power Dissipation 330mW (derate linearly 4.4mW/°C above 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

17/7/08

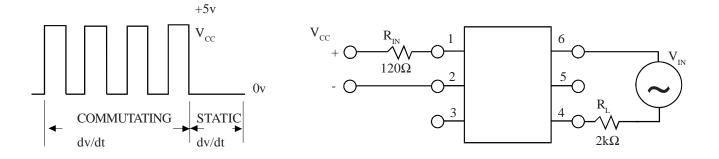
DB90040

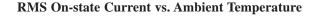
	PARAMETER	MIN	ТҮР	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F) Reverse Current (I_R)		1.2	1.5 100	V μA	$I_{\rm F} = 10 {\rm mA}$ $V_{\rm R} = 6 {\rm V}$
Output	Peak Off-state Current (I_{DRM}) Peak Blocking Voltage (V_{DRM}) On-state Voltage (V_{TM}) Critical rate of rise of off-state Voltage (dv/dt) (note 1) Critical rate of rise of commutating	250	1.5 10	100 3.0	nA V V V/µs	$V_{DRM} = 250V \text{ (note 1)}$ $I_{DRM} = 100nA$ $I_{TM} = 100mA \text{ (peak)}$
	Voltage (dv/dt) (note 1)	0.1	0.2		V/µs	I load = 15mA, V _{IN} = 30V (fig 1.)
Coupled	Input Current to Trigger (I _{FT})(note 2) MOC3009 MOC3010 MOC3011 MOC3012			30 15 10 5	mA mA mA mA	$V_{\rm D} = 3V \ (\ {\rm note} \ 2 \)$
	Holding Current , either direction (${\rm I}_{\rm H}$)		100		μΑ	
	Input to Output Isolation Voltage V_{ISO}	5300 7500			V _{RMS} V _{PK}	See note 3 See note 3

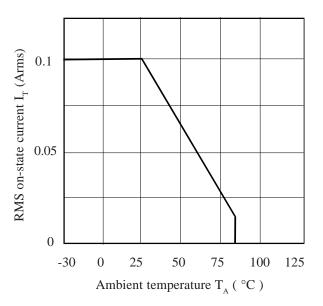
ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ Unless otherwise noted)

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_{FT}. Note 3. Measured with input leads shorted together and output leads shorted together.

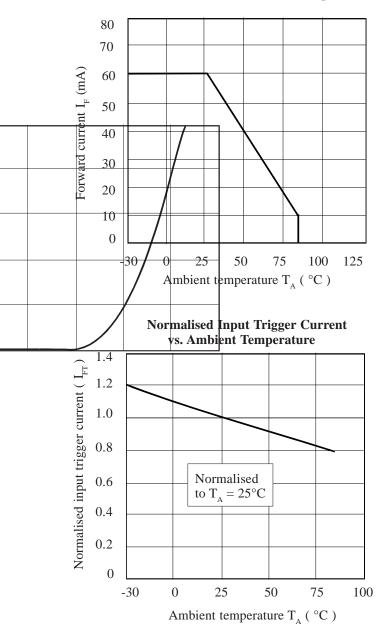


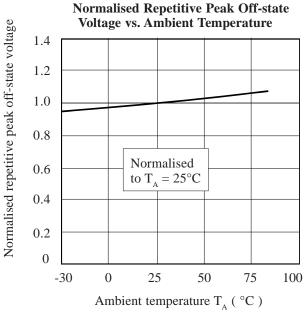




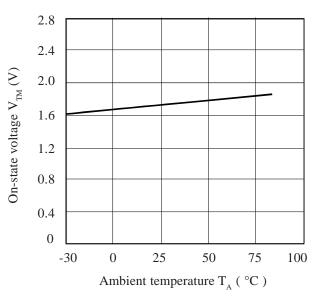


Forward Current vs. Ambient Temperature

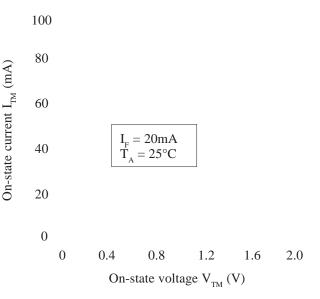




On-state Voltage vs. Ambient Temperature



On-state Current vs. On-state Voltage



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for isocom manufacturer:

Other Similar products are found below :

 SFH615A-2SM
 H11A1
 MOC3021M
 ISD74X
 IS60SM
 MOC3043X
 ICPL4503SM
 PS2505-4
 MOC3021XSM
 MOCD207
 ISP620-1X

 4N26X
 IS60SMT&R
 MOC3083
 MOC3081M
 ICPL2531SM
 PS2502-2
 IS341W
 SFH617A-4X
 MOC3043M
 PS2502-2SM
 ILQ74X

 MOC3021X
 ICPL2601
 IS181C
 PS2502-4SM
 ICPL2530SM
 MOC3041SM
 ISQ74X
 4N25X
 CNY17-2XSM
 CNY17-1XSM
 MOC3023M

 H11AA1XSM
 ISQ2X
 PS2505-4SM
 TIL199
 4N32FSM
 4N35X
 MOC3020X
 H21A3
 IS281C
 MOC3061X
 ISP817B
 MOC3041M

 ICPL2631
 ILQ1XSM
 MOC3022X
 CNY17F-3X
 ISP521-1XSM