2004
New Product Info.

COSMO New Product Launch

KMOC308X ,Photo Traic

冠西電子企業股份有限公司

COSMO Electronics Corporation.

WWW.COSMO-IC.COM

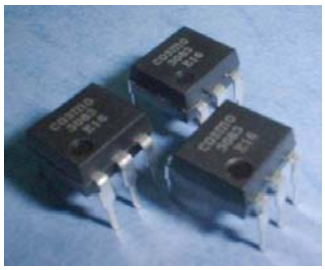
2004 .04

COSMO New Product

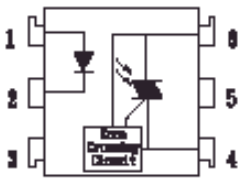
Photo Triac KMOC308X Series 800V

Released in Q2 2004

KMOC308X Series is COSMO new design photo triac with the function of 800V VDRM & Zero Crossing after 400V 600V series products which is very suitable for applying in SSR, SPS…etc.



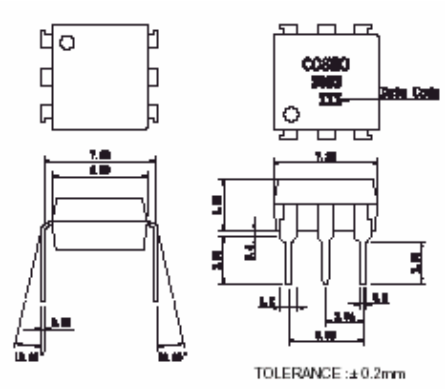
Pin assignment

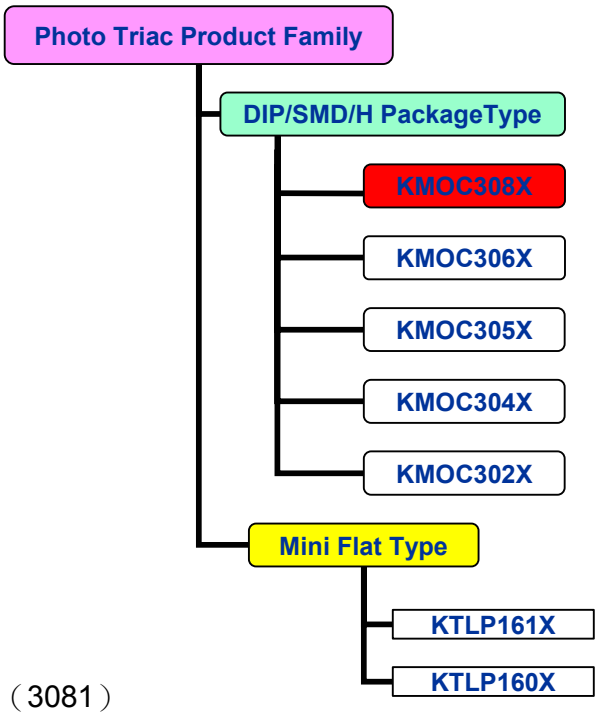


1. Anode
2. Cathode
3. NC
4. MAIN TERMINAL
5. SUBSTRATE DO NOT CONNECT
6. MAIN TERMINAL

- ***Improve off-state output terminal voltage V_{DRM}***
- ***Variety selections of trigger current I_{FT}***
- ***dv/dt=1000V/us custom-made***
- ***Acquired safety approval UL, VDE, TUV, FIMKO,NEMKO,SEMKO***
- ***Lead free production***

Package dimensions





Product Features

- High isolation voltage 5000Vrms
- High Off-state Output Terminal voltage VDRM=800V
- Available package：DIP/SMD/H Type.
- Trigger current I_{FT}=5mA（3083）,10mA（3082）,15mA（3081）
- On-state current I_{TM}=300mA

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Photo Triac KMOC308X Series 800V

Application

- Solenoid/valve Controls
- Static Power Switches
- AC Motor Drives
- Temperature Controls
- AC Motor Starters
- E.M. Contactors
- Solid State Relay

Minimum trigger current (I_{FT})

Item	Max.	Unit
KMOC3081	15	mA
KMOC3082	10	
KMOC3083	5	

Electrical characteristics (Ta=25℃)

Characteristic		Symbol	Rating	Unit
Input	Forward Current	I_F	50	mA
	Reverse Voltage	V_R	5	V
Output	Off-state output voltage	V_{DRM}	800	V
	Peak repetitive surge current	I_{TSM}	1	A
Operation Temperature		Topr	-40~80	℃
Storage Temperature		Tstg	-40~125	℃
Soldering Temperature		Tsol	260(10Sec)	℃
Isolation voltage		Viso	5000	V rms

Characteristic	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Forward current	V_F	IF=10mA		1.2	1.5	V
Peak Blocking Current	I_{DRM}	VDRM=800V		60	500	nA
On-state Voltage	V_{TM}	ITM=100mA		1.8	3	V
Inhibit Voltage	V_{INH}	IF=5mA		5	20	V
Critical rate of rise of OFF-state voltage	dv/dt		600	1000		V/uS

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COSMO Electronics Corporation.

www.cosmo-ic.com

COSMO Electronics Crop.
8F, No.258, Lian Cheng Rd., Chung-Ho, Taipei Hsien 235 Taiwan, R.O.C.
Tel:886-2-8227-1877 Fax:886-2-8227-1855
E-mail:sales@cosmo-ic.com
http://www/cosmo-ic.com

COSMO Electronics (Hong Kong) International Corp. Ltd. Shenzhen Representative
Room 1506, Water Bldg, No.1019 Shennan Zhong Rd., Shenzhen. P.R. China
Tel: 86-755-8213-2513 Fax: 86-755-8213-7082