

# 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

### **COSMO New Product**

#### Photo Triac KMOC308X Series 800V

Released in O2 2004

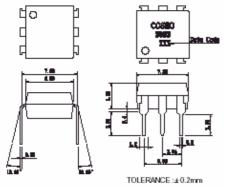
KMOC308X Series is COSMO new design photo triac with the function of 800V VDRM & Zero Crossing after 400V 600V series products which is very suitable for applying in SSR, SPS...etc.



#### Pin assignment 1. Anode

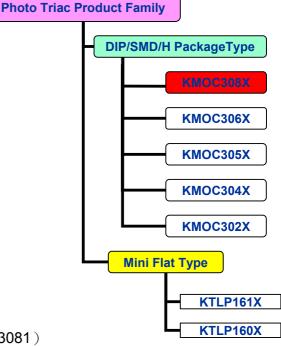
- 2. Cathode
- 3. NC
- 4. MAIN TERMINAL
- 5. SUBSTRATE DO NOT CONNECT
- 6. MAIN TERMINAL
- **❖** Improve off-state output terminal voltage V<sub>DRM</sub>
- **❖ Variety selections of trigger current** *I<sub>FT</sub>*
- ❖ dv/dt=1000V/us custom-made
- ❖ Acquired safety approval UL, VDE, TUV, FIMKO,NEMKO,SEMKO
- 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<sub>TM</sub>=300mA



# **COSMO New Product**

# 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 (IFT)

Item	Max.	Unit
KMOC3081	15	
KMOC3082	10	mA
KMOC3083	5	

#### Electrical characteristics (Ta=25 $^{\circ}$ C)

	Characteristic	Symbol Rating		Unit
Input	Forward Current	l <sub>F</sub>	50	mA
	Reverse Voltage	$V_R$	5	V
Output	Off-state output voltage	$V_{DRM}$	800	V
	Peak repetitive surge current	I <sub>TSM</sub>	1	Α
Operation Temperature Topr		Topr	-40~80	$^{\circ}\!\mathbb{C}$
	Storage Temperature Tstg		-40~125	$^{\circ}\!\mathbb{C}$
	Soldering Temperature Tsol 260(10Sec)		$^{\circ}\!\mathbb{C}$	
	Isolation voltage Viso		5000	V rms

Characteristic	Symbol	Test conditions	Min.	Тур.	Max.	Unit
Forward current	V <sub>F</sub>	IF=10mA		1.2	1.5	٧
Peak Blocking Current	I <sub>DRM</sub>	VDRM=800V		60	500	nA
On-state Voltage	$V_{TM}$	ITM=100mA		1.8	3	<b>V</b>
Inhibit Voltage	V <sub>INH</sub>	IF=5mA		5	20	٧
Critical rate of rise of OFF-state voltage	dv/dt		600	1000		V/uS



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