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COSMO New Product Launch

<u>KMOC308X ,Photo Traic</u>

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

<u>Released in O2 2004</u>

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.



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Pin assignment

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- 1. Anode 2. Cathode
- 3. NC
- 4. MAIN TERMINAL
- 5. SUBSTRATE DO NOT
- CONNECT
- 6. MAIN TERMINAL
- * Improve off-state output terminal voltage VDRM
- 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



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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 \mathcal{C})

Characteristic		Symbol	Rating	Unit	
Input	Forward Current	l _F	50	mA	
Input	Reverse Voltage	V _R	5	V	
Output	Off-state output voltage	V _{DRM}	800	V	
Output	Peak repetitive surge current	I _{TSM}	1	А	
Operation Temperature		Topr	-40~80	°C	
Storage Temperature		Tstg	-40~125	°C	
Soldering Temperature		Tsol	260(10Sec)	°C	
Isolation voltage		Viso	5000	V rms	

Characteristic	Symbol	Test conditions	Min.	Тур.	Max.	Unit
Forward current	VF	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	VINH	IF=5mA		5	20	V
Critical rate of rise of OFF-state voltage	dv/dt		600	1000		V/uS

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