

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_{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

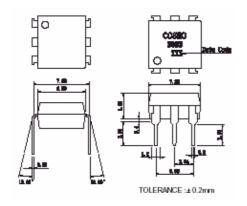


Photo Triac Product Family

DIP/SMD/H PackageType KMOC306X KMOC305X KMOC304X KMOC302X

Mini Flat Type

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

KTLP161X

KTLP160X

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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 (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
	Reverse Voltage	V_R	5	V
Output	Off-state output voltage	V_{DRM}	800	V
	Peak repetitive surge current	I _{TSM}	1	Α
Operation Temperature T		Topr	-40~80	$^{\circ}\!\mathbb{C}$
	Storage Temperature Tstg		-40~125	$^{\circ}\!\mathbb{C}$
	Soldering Temperature Tsol 260(10S		260(10Sec)	$^{\circ}\!\mathbb{C}$
Isolation voltage		Viso	5000	V rms

Characteristic	Symbol	Test conditions	Min.	Тур.	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	٧
Critical rate of rise of OFF-state voltage	dv/dt		600	1000		V/uS



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