PRODUCT SPECIFICATION

COSMO
ELECTRONICS CORPORATION

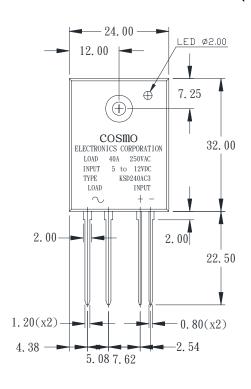
SOLID STATE RELAY:

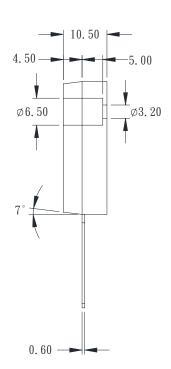
KSD240AC3

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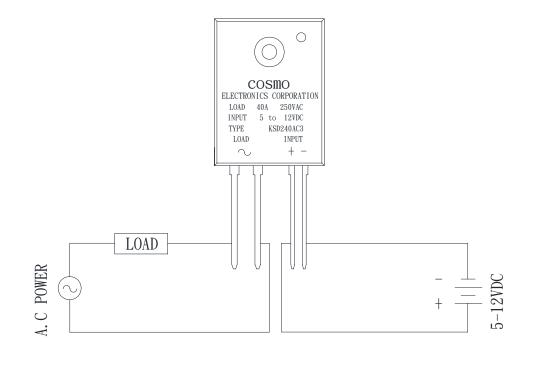
REV.

1. OUTSIDE DIMENSION: UNIT (mm)





2. SCHEMATIC: TOP VIEW



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3.Absolute Maximum Ratings				
Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V _{IN}	5-12	VDC
	Drop-out voltage	V _{do}	1	VDC
Output	RMS on-state current	I _T	40	Arms
	Peak one cycle surge current	I _{surge}	400	А
	Repetitive peak-off state voltage	V_{DRM}	600	V
	Operating frequency	f	47~70	Hz
	Critical rate of rise of on-state current	di/dt	50	A/us
	Load supply voltage	V _{out}	250	Vrms AC
Isolation voltage input to output		V _{iso}	4000	Vrms
Operating temperature		T _{opr}	-30~100	$^{\circ}\!\mathbb{C}$
Storage temperature		T _{stg}	-30~125	$^{\circ}$ C
Soldering temperature 10 sec		T _{sol}	260	$^{\circ}\!\mathbb{C}$

4. Electrical Characteristics (Ta=25°ℂ)

	Parameter	Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	V_{pu}	It=1Arms			4	VDC
	Input current	l _{in}	Vin=5~12V	5		35	mA
Output	On-state voltage	V _T	I _T =1Arms			1.5	Vrms
	Operating current	I _{op}	Vout=240vrms	50			mArms
	Leakage current	I _{leak}	Vout=240vrms			7	mArms
	Critical rate of rise of	dv/dt		50	200		V/us
	off-state voltage						
	Zero-cross voltage	V _{ox}			YES		
	Load Voltage Rating	V_{out}	I _T =50mArms MIN	50		280	VAC
Minimum tr	igger current	I _{FT}	V _{DRM} =600V			25	mA
Isolation re	sistance input to output	R _{ISO}	DC500V	10			GΩ
Turn-on tim	ne	T _{on}	60Hz AC			8.3	mS
Turn-off tim	ne	T _{off}	60Hz AC			8.3	mS
Thermal resistance		R _{th}					
(between ju	unction and case)	(j-c)l			1.3		°C /W

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SOLID STATE RELAY:

KSD240AC3

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Application Notice

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