PRODUCT SPECIFICATION

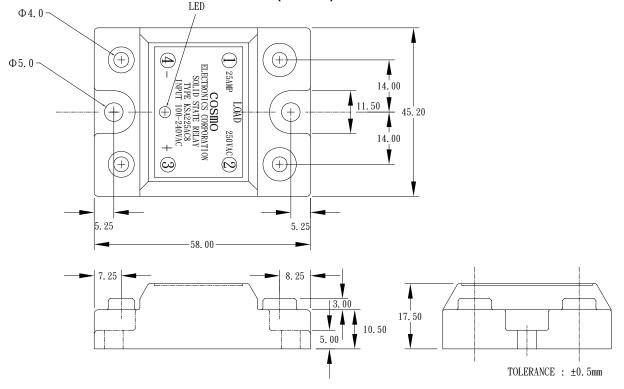
COSMO ELECTRONICS CORPORATION

SOLID STATE RELAY: KSA225AC8

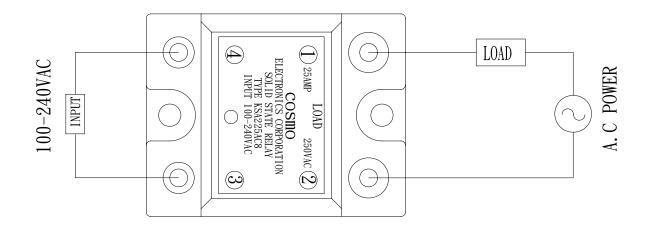
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1. OUTSIDE DIMENSION: UNIT (mm)



2. SCHEMATIC: TOP VIEW



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3.Absolute Maximum Ratings				(Ta=25°ℂ)
Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V _{IN}	100~240	VAC
	Drop-out voltage	V_{do}	10	VAC
Output	RMS on-state current	I _T	25	Arms
	Peak one cycle surge current (8.3ms)	I _{surge}	250	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	$^{\circ}\!\mathbb{C}$
Soldering temperature 10 sec		T_{sol}	300	$^{\circ}\! \mathbb{C}$

4.Electrical Characteristics

4.Electrical Characteristics (Ta=25℃)								
	Parameter	Symbol	Conditions	MIN	TYP	MAX	Unit	
Input	Pick-up voltage	V_{pu}	Rin=11K Ω			100	VAC	
	Input current	Rin			11		ΚΩ	
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		3.5	8	mArms	
	Critical rate of rise of	dv/dt		100			V/us	
	off-state voltage							
	Zero-cross voltage	V_{ox}			YES			
	Load Voltage Rating	V_{out}	I _T =50mArms MIN	50		280	VAC	
Minimum trigger current		I _{FT}	V _{DRM} =600V			25	mA	
Isolation resistance input to output		R _{ISO}	DC500V	10			GΩ	
Turn-on time		T _{on}	60Hz AC			8.3	mS	
Turn-off time		T _{off}	60Hz AC			8.3	mS	
Thermal resistance		R _{th}						
(between junction and case)		(j-c)l			2.5		°C/W	

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