

PRODUCT SPECIFICATION

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSA215AC8	SHEET 2 OF 2
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3. Absolute Maximum Ratings

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V _{IN}	50~250	VAC
	Drop-out voltage	V _{do}	10	VAC
Output	RMS on-state current	I _T	15	Arms
	Peak one cycle surge current (8.3ms)	I _{surge}	150	A
	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	V _{rms} AC
Isolation voltage input to output		V _{iso}	4000	V _{rms}
Operating temperature		T _{opr}	-30~100	°C
Storage temperature		T _{stg}	-30~125	°C
Soldering temperature 10sec		T _{sol}	300	°C

4. Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	V _{pu}	R _{in} =11KΩ			50	VAC
	Input current	R _{in}			11		KΩ
Output	On-state voltage	V _T	I _T =1Arms			1.5	V _{rms}
	Operating current	I _{op}	V _{out} =220V _{rms}	50			mArms
	Leakage current	I _{leak}	V _{out} =220V _{rms}		3.5	8	mArms
	Critical rate of rise of off-state voltage	dv/dt		100			V/us
	Zero-cross voltage	V _{ox}	I _f =25mA			35	VAC
	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 (between junction and case)		R _{th} (j-c)l			2.5		°C/W