


# SONGLE RELAY

	RELAY ISO9002	<b>SRD</b>
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## 1. MAIN FEATURES

- Switching capacity available by 10A in spite of small size design for highdensity P.C. board mounting technique.
- UL,CUL,TUV recognized.
- Selection of plastic material for high temperature and better chemical solution performance.
- Sealed types available.
- Simple relay magnetic circuit to meet low cost of mass production.

## 2. APPLICATIONS

- Domestic appliance, office machine, audio, equipment, automobile, etc.  
( Remote control TV receiver, monitor display, audio equipment high rushing current use application.)

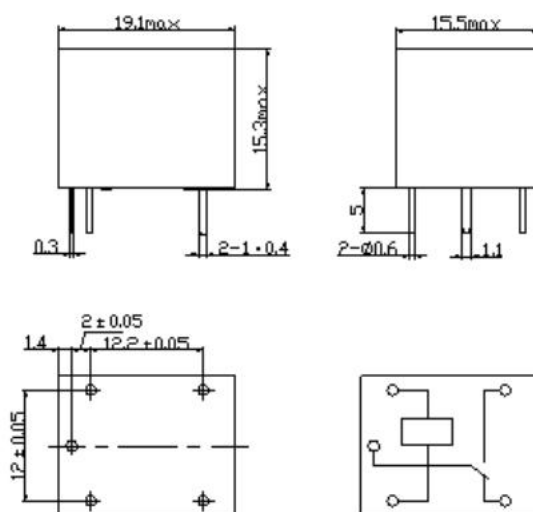
## 3. ORDERING INFORMATION

SRD	XX VDC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SRD	03 05 06 09 12 24 48VDC	S:Sealed type	L:0.36W	A:1 form A
		F:Flux free type	D:0.45W	B:1 form B
				C:1 form C

## 4. RATING

CCC FILE NUMBER: CQC03001003731 10A/250VDC  
 UL /CUL FILE NUMBER: E167996 10A/125VAC 28VDC  
 TUV FILE NUMBER: R 50056114 10A/250VAC 30VDC

## 5. DIMENSION<sub>(unit:mm)</sub> DRILLING<sub>(unit:mm)</sub> WIRING DIAGRAM



## 6. COIL DATA CHART (AT20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
SRD (High Sensitivity)	03	03	120	25	abt. 0.36W	75%Max.	10% Min.	120%
	05	05	71.4	70				
	06	06	60	100				
	09	09	40	225				
	12	12	30	400				
	24	24	15	1600				
	48	48	7.5	6400				
SRD (Standard)	03	03	150	20	abt. 0.45W	75% Max.	10% Min.	110%
	05	05	89.3	55				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	24	24	18.7	1280				
	48	48	10	4500	abt. 0.51W			

## 7. CONTACT RATING

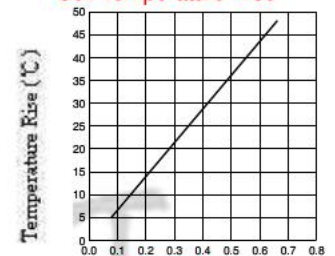
Item	Type	SRD	
		FORM C	FORM A
Contact Capacity Resistive Load ( $\cos\Phi=1$ )		10A 125VAC	10A 30VDC 10A 250VAC
Inductive Load ( $\cos\Phi=0.4$ L/R=7msec)		3A 120VAC 3A 28VDC	5A 120VAC 5A 28VDC
Max. Allowable Voltage		250VAC/110VDC	250VAC/110VDC
Max. Allowable Power Force		800VAC/240W	1200VA/300W
Contact Material		AgCdO	AgCdO

## 8. PERFORMANCE (at initial value)

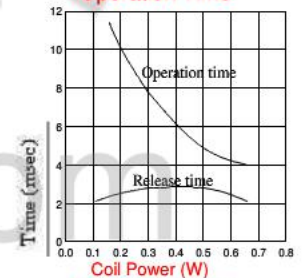
Item	Type	SRD
Contact Resistance		100m $\Omega$ Max.
Operation Time		10msec Max.
Release Time		5msec Max.
Dielectric Strength	Between coil & contact	1500VAC 50/60HZ (1 minute)
	Between contacts	1000VAC 50/60HZ (1 minute)
Insulation Resistance		100 M $\Omega$ Min. (500VDC)
Max. ON/OFF Switching		
Mechanically		300 operation/min
Electrically		30 operation/min
Ambient Temperature		-40°C to +85°C
Operating Humidity		45 to 85% RH
Vibration		
Endurance		10 to 55Hz Double Amplitude 1.5mm
Error Operation		10 to 55Hz Double Amplitude 1.5mm
Shock		
Endurance		100G Min.
Error Operation		10G Min.
Life Expectancy		
Mechanically		10 <sup>7</sup> operations. Min. (no load)
Electrically		10 <sup>5</sup> operations. Min. (at rated coil voltage)
Weight		abt. 10grs.

## 9. REFERENCE DATA

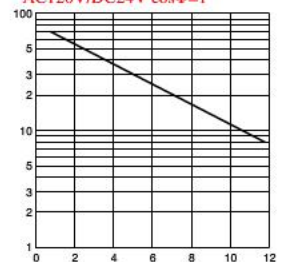
### Coil Temperature Rise



### Operation Time



### Life Expectancy



### Life Expectancy

