

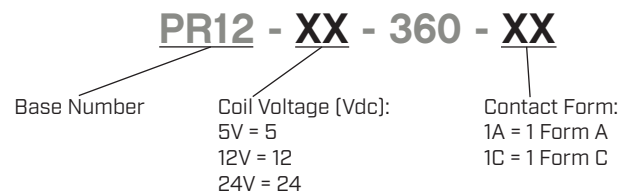
**SERIES:** PR12 | **DESCRIPTION:** POWER RELAY**FEATURES**

- 5V/12V/24V
- SPST & SPDT
- 360 mW

**MODEL**

	coil voltage typ (Vdc)	coil resistance ($\Omega \pm 10\%$)	operating voltage min (Vdc)	release voltage max (Vdc)	coil power max (mW)
PR12-5V-360-1A	5	70	3.5	0.5	360
PR12-12V-360-1A	12	400	8.4	1.2	360
PR12-24V-360-1A	24	1,600	16.8	2.4	360
PR12-5V-360-1C	5	70	3.5	0.5	360
PR12-12V-360-1C	12	400	8.4	1.2	360
PR12-24V-360-1C	24	1,600	16.8	2.4	360

Notes: 1. All specifications are measured at 23°C unless otherwise specified.

PART NUMBER KEY

CONTACT SPECIFICATIONS

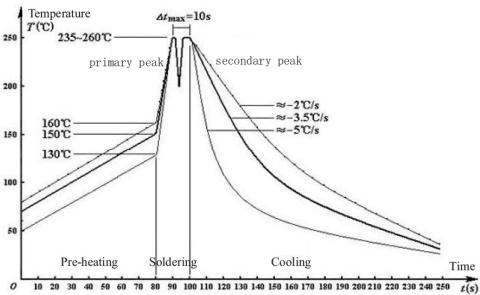
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	1 Form A: 10 A @ 250 Vac 1 Form C: NO/NC: 10 A / 6 A @ 250 Vac, 10 A / 6 A @ 24 Vdc				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				250 28	Vac Vdc
max switching current				15	A
max switching power				2,500 280	VA W
min switching load	5 Vdc, 100 mA				
life	electrical mechanical		100,000 10,000,000		operations operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc	1,000			MΩ
dielectric strength	between open contacts for 1 minute between coil and contacts for 1 minute		750 1,500		Vac Vac
operate time				10	ms
release time				5	ms
shock resistance	endurance misoperation		1,000 100		m/s ² m/s ²
vibration resistance	endurance: 10~55 Hz, 1.5 mm double amplitude misoperation: 10~55 Hz, 1.5 mm double amplitude				
operating temperature		-40		85	°C
humidity	at 40°C	35		95	%RH
weight			10.0		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	box: 250 pcs per box carton size: 323 x 221 x 280 mm carton QTY: 1,000 pcs per carton				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3.5±0.5 seconds	340	350	360	°C
wave soldering	for 10±1 seconds	255	260	265	°C

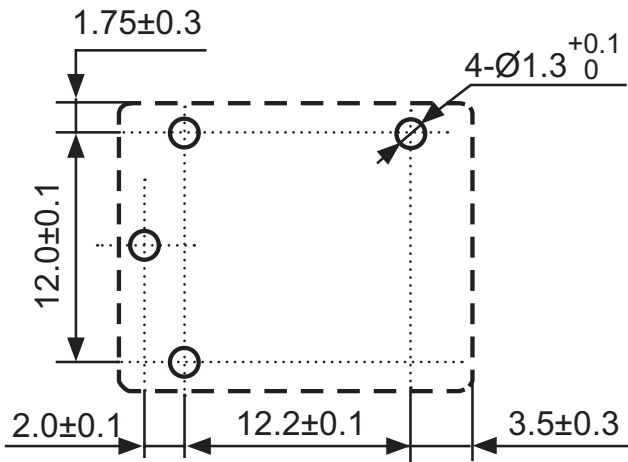
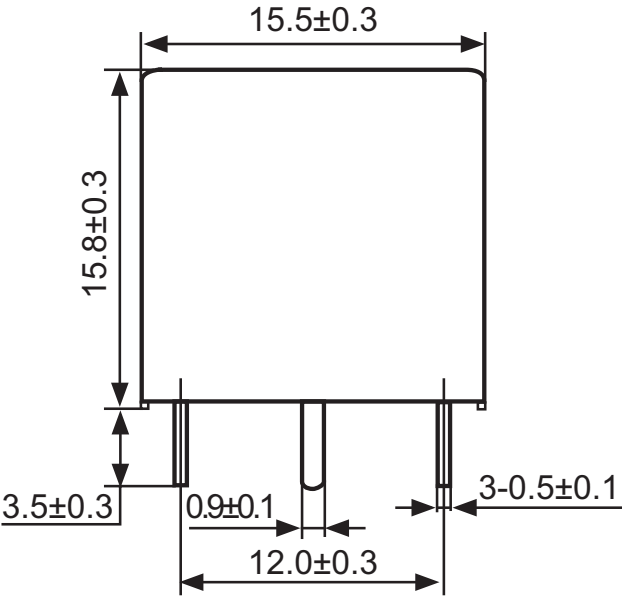
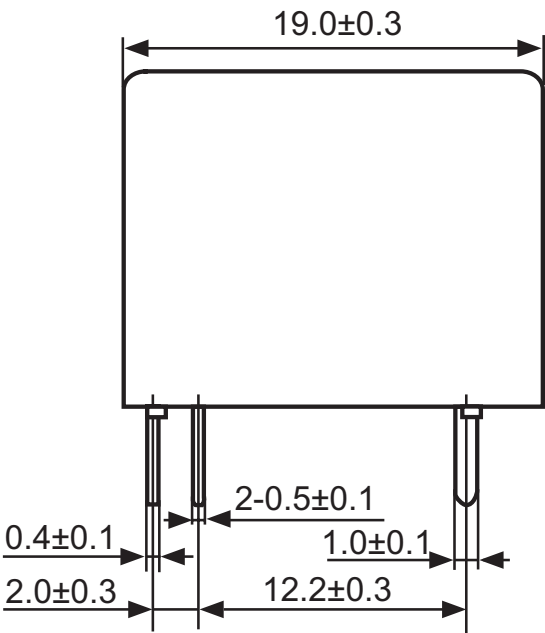


Double-wave Soldering Curve

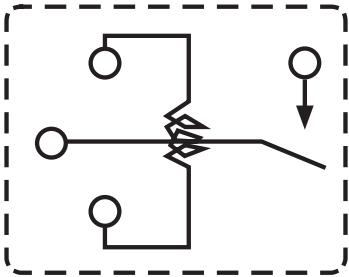
MECHANICAL DRAWING (1A = 1 FORM A)

units: mm
tolerance: ± 0.3 mm
unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT [UL94V-0]	black
B	terminals	copper covered steel	tin



Recommended PCB Layout
Bottom View

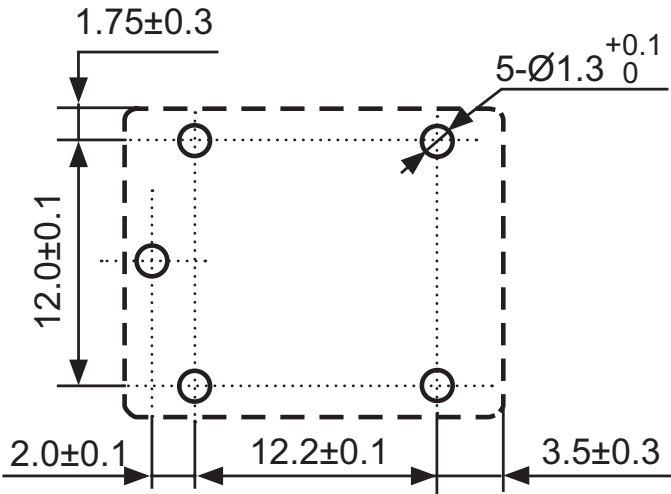
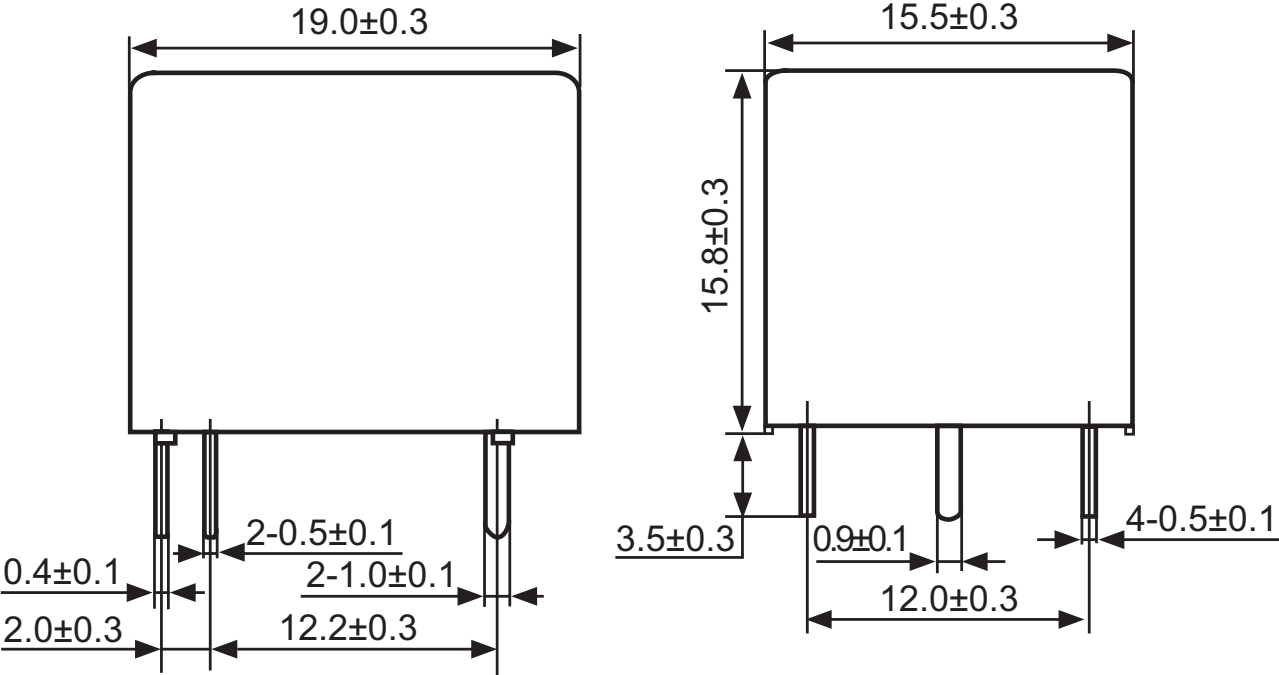


Wiring Diagram
Bottom View

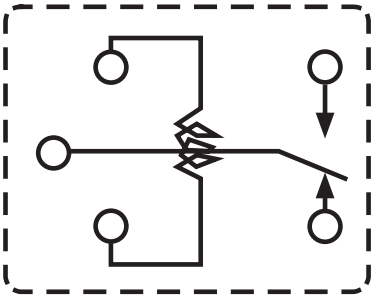
MECHANICAL DRAWING (1C = 1 FORM C)

units: mm
tolerance: ± 0.3 mm
unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT [UL94V-0]	black
B	terminals	copper covered steel	tin



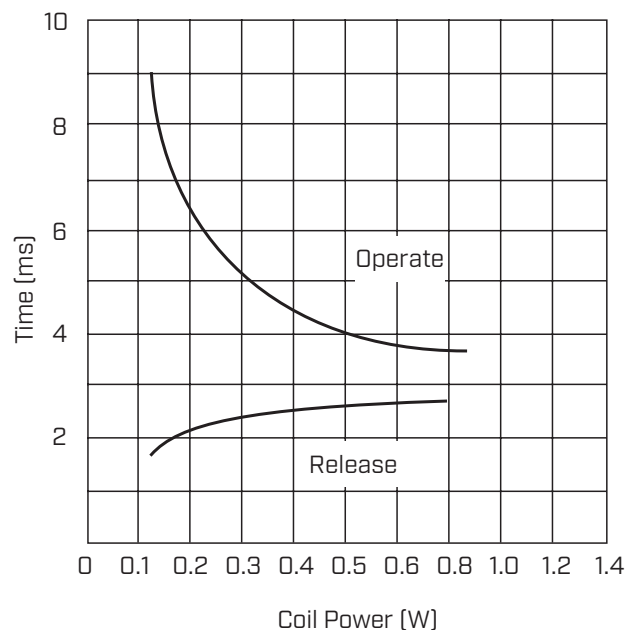
Recommended PCB Layout
Bottom View



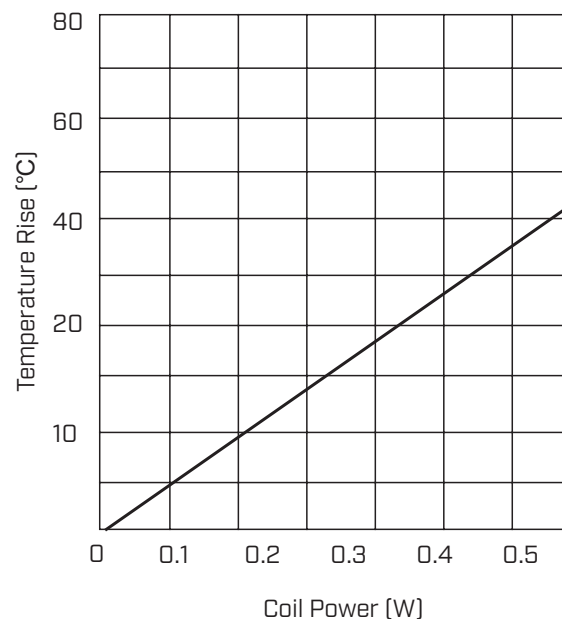
Wiring Diagram
Bottom View

CHARACTERISTIC CURVES

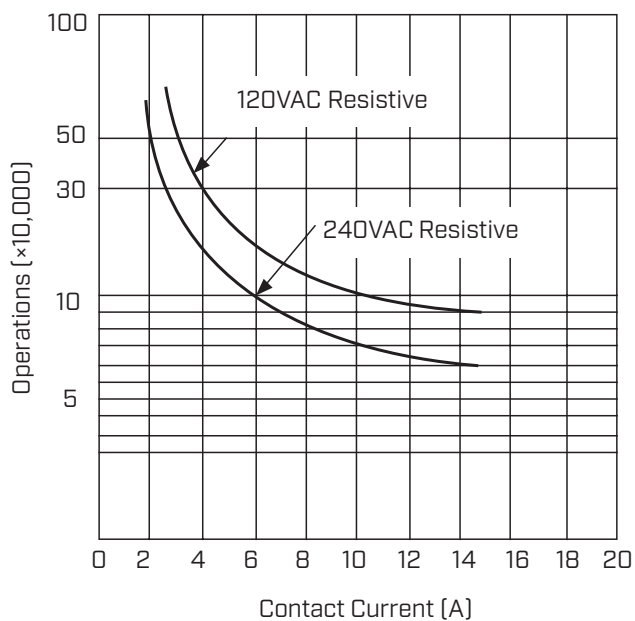
Time Curve



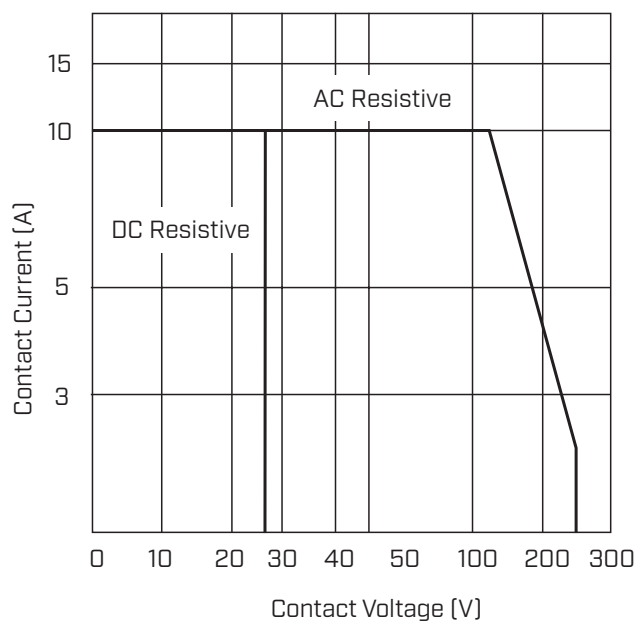
Coil Temperature Rise



Life Curve



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