

MOS RELAY APR SERIES



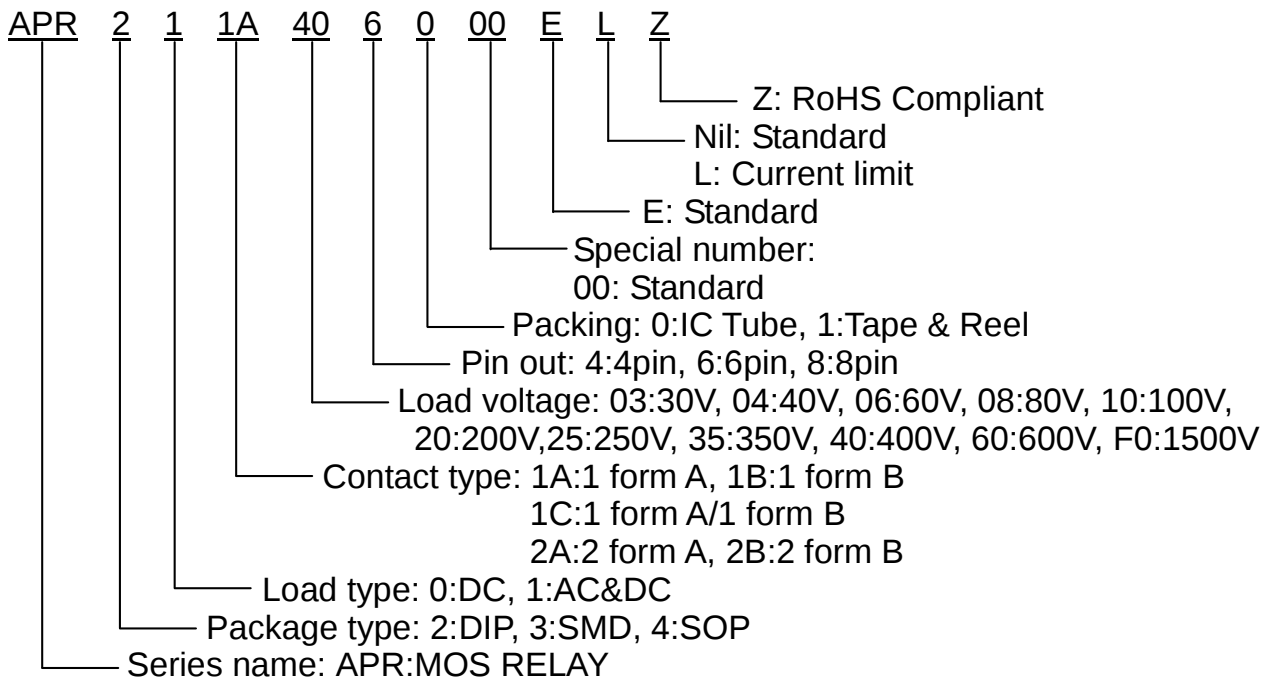
FEATURES

- No EMI/RFI generation
- High reliability
- No moving parts
- Low drive power requirement (TTL/CMOS compatible)
- Low On-state resistance
- High isolation voltage
- Arc-free with no snubbing circuits
- Machine insertable or wave solderable

APPLICATIONS

- Telecommunications
- Instrumentation
- Medical equipment
- Security
- Industrial control

PART NUMBER SYSTEM



DIP TYPE



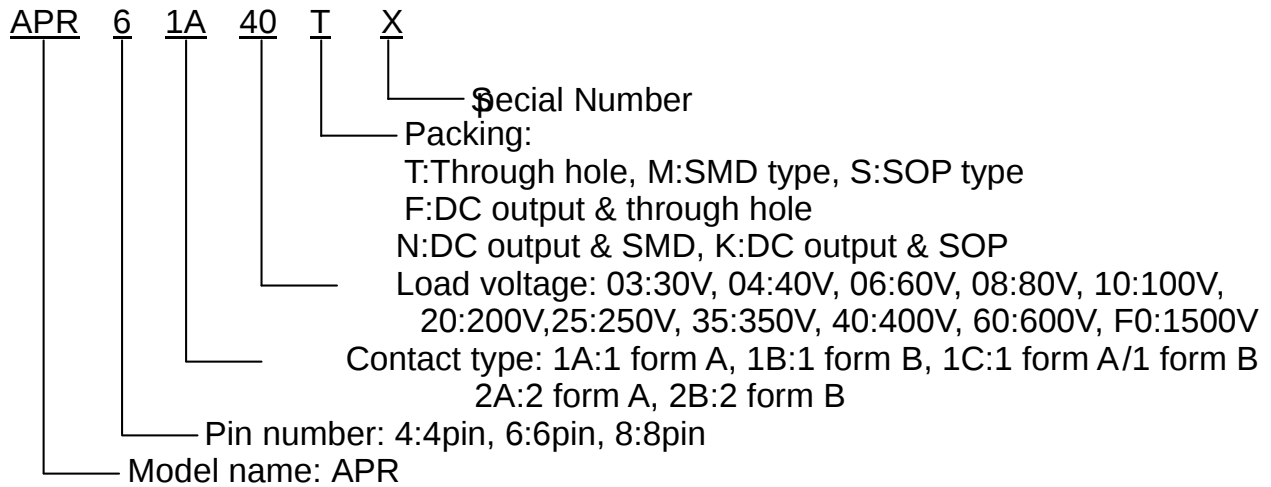
SMD TYPE



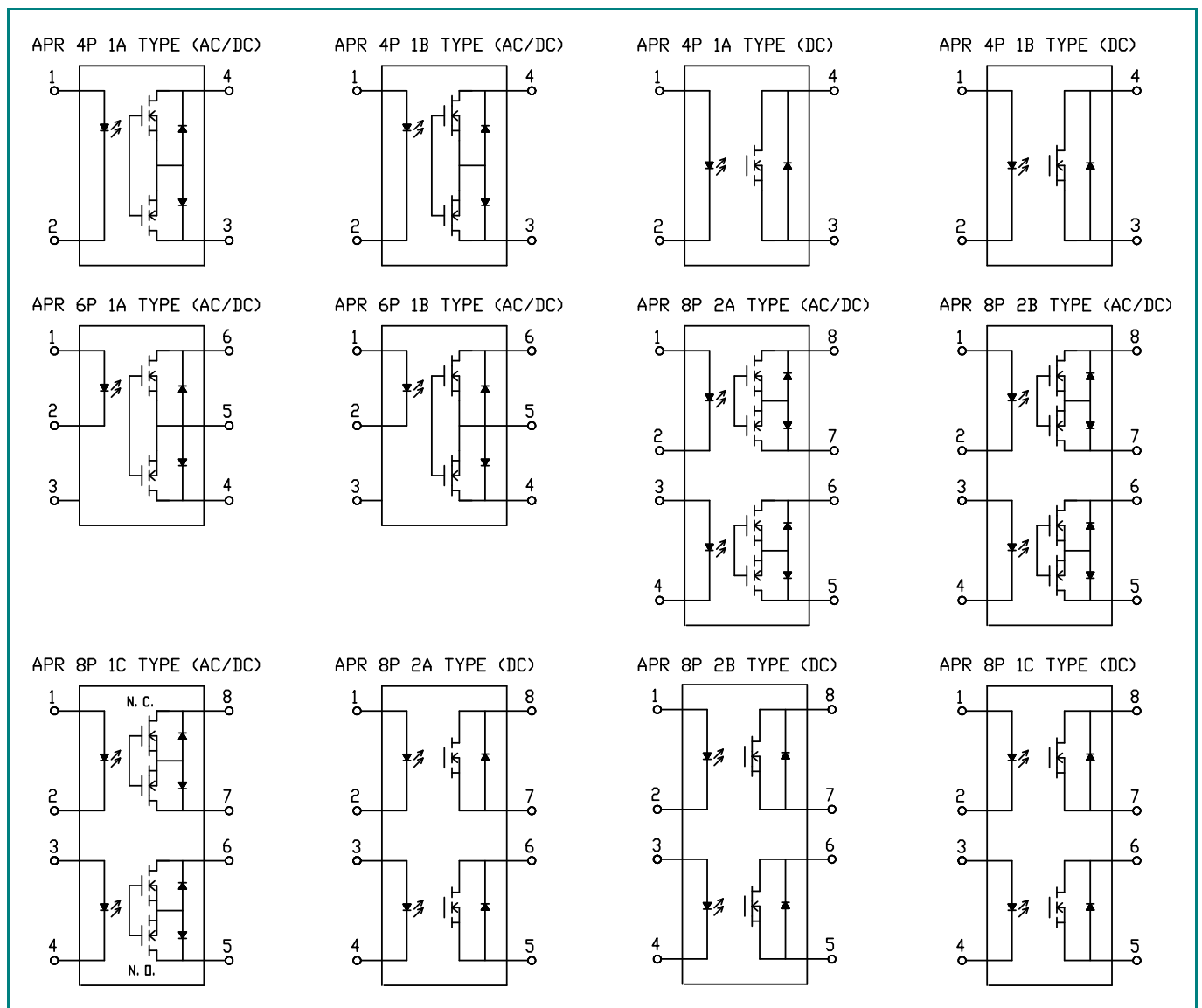
SOP TYPE



MARKING SYSTEM

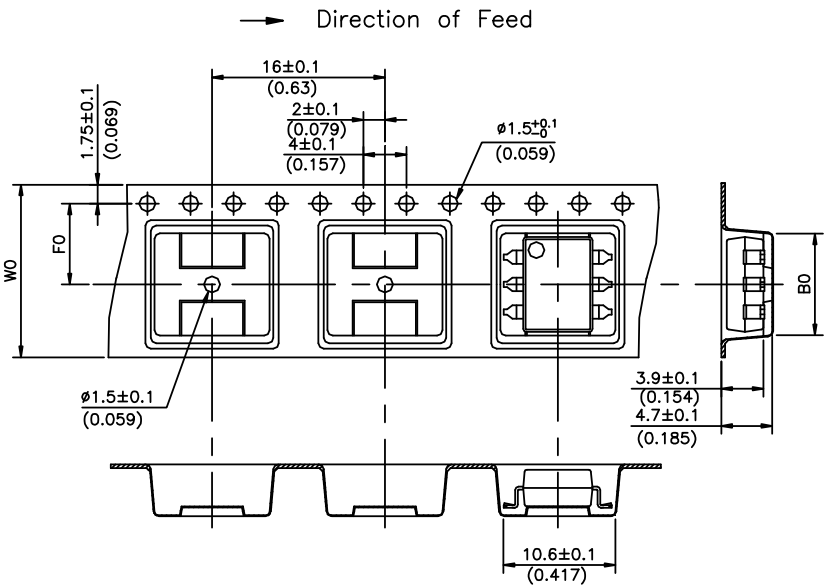
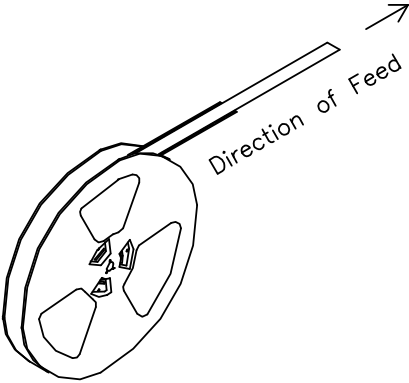


CIRCUIT DIAGRAM



OPTIONS

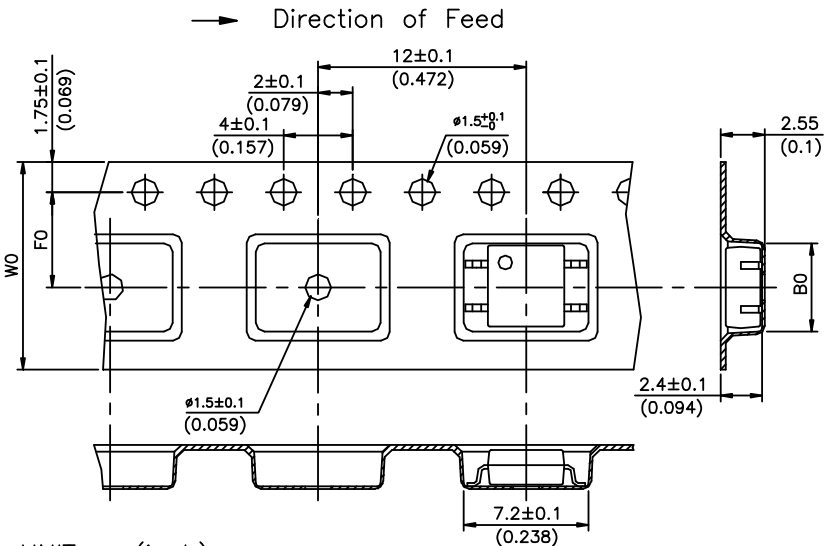
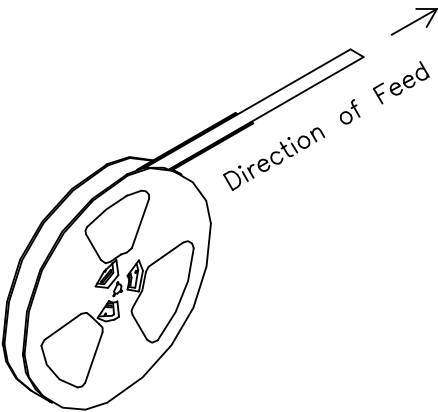
SMD Type
TAPE & REEL Package



UNIT: mm(inch)

TYPE	B0±0.1	F0±0.1	W0±0.3	15"REEL/PCS
4P	5.3(0.209)	7.5(0.295)	16(0.630)	1000
6P	9.4(0.370)	7.5(0.295)	16(0.630)	1000
8P	10.3(0.406)	11.5(0.453)	24(0.945)	1000

SOP Type
TAPE & REEL Package

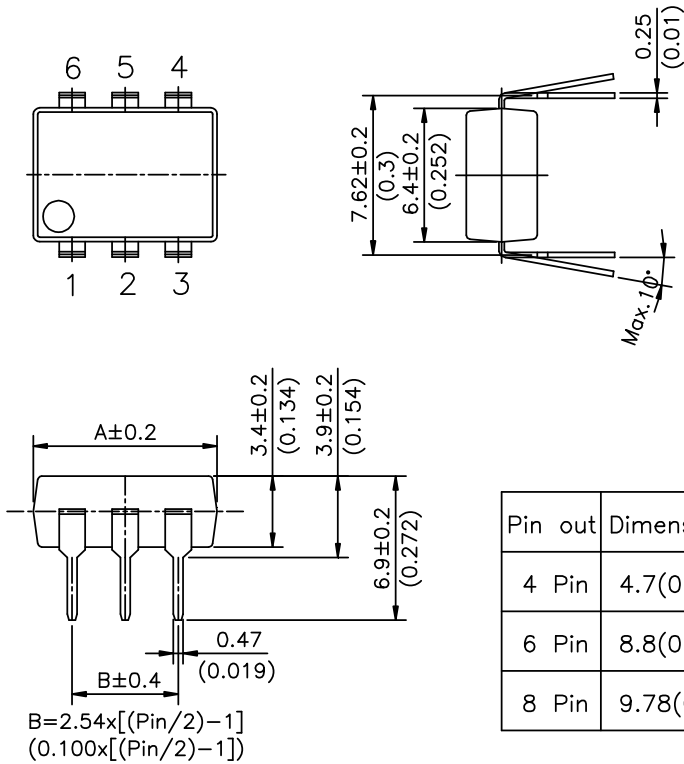


UNIT:mm(inch)

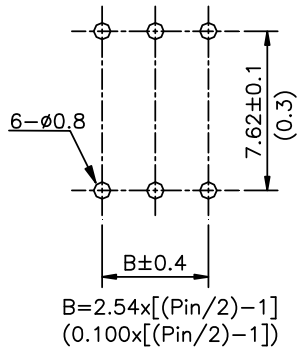
TYPE	B0±0.1	F0±0.1	W0±0.3	13"REEL/PCS
4P	5.1(0.200)	5.5(0.217)	12(0.472)	2000
6P	6.7(0.264)	7.5(0.295)	16(0.630)	2000
8P	9.6(0.378)	7.5(0.295)	16(0.630)	2000

DIMENSIONS UNIT:mm(inch)

(DIP TYPE)

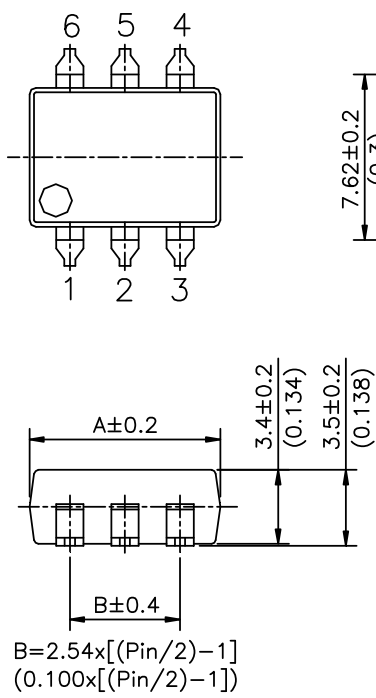


P.C.B. LAYOUT
(TOP VIEW)

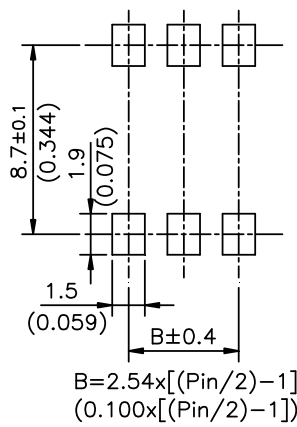


Pin out	Dimensions A	Dimensions B
4 Pin	4.7(0.185)	2.54(0.100)
6 Pin	8.8(0.346)	5.08(0.200)
8 Pin	9.78(0.385)	7.62(0.300)

(SMD TYPE)

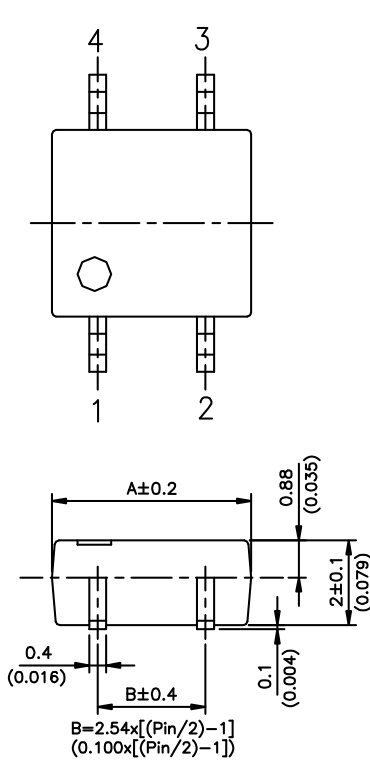


P.C.B. LAYOUT
(TOP VIEW)

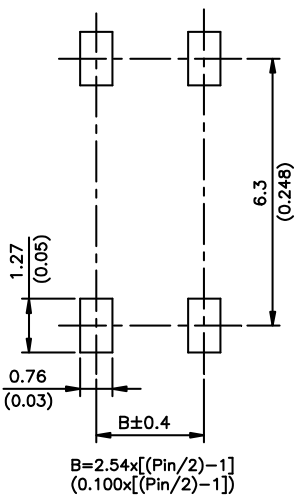


Pin out	Dimensions A	Dimensions B
4 Pin	4.7(0.185)	2.54(0.100)
6 Pin	8.8(0.346)	5.08(0.200)
8 Pin	9.78(0.385)	7.62(0.300)

(SOP TYPE)



P.C.B. LAYOUT
(TOP VIEW)



Pin out	Dimensions A	Dimensions B
4 Pin	4.7(0.185)	2.54(0.100)
6 Pin	6.30(0.248)	5.08(0.200)
8 Pin	9.3(0.366)	7.62(0.300)

■ SPECIFICATIONS (@25 / Initial):

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A034005 211A036005 212A038005	211A034006 211A036006 212A038006	211A044005 211A046005 212A048005	----- 211A046006 -----	----- 211A046007 -----
	SMD		311A034X05 311A036X05 312A038X05	311A034X06 311A036X06 312A038X06	311A044X05 311A046X05 312A048X05	----- 311A046X06 -----	----- 311A046X07 -----
	SOP		411A034X05 411A036X05 412A038X05	----- 411A036X06 -----	411A044X05 411A046X05 412A048X05	----- ----- -----	----- ----- -----
Contact form	4PIN / 6PIN		1A	1A	1A	1A	1A
	8PIN		2A	2A	2A	---	---
Input Characteristics							
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5
Reverse voltage at 10μA (V)(V _R)			5	5	5	5	5
Control current (mA)(I _F)			10-50	10-50	10-50	10-50	10-50
Output Characteristics							
Load voltage (V)(AC peak or DC)(V _L)			30	30	40	40	40
Continuous rated load current (mA)(I _L)	SOP		1300	2500	1600	---	---
	SMD/DIP		1800	3000	2000	3500	4500
Peak current (mA)(I _{L-Peak})	SOP		2000	5000	2500	---	---
	SMD/DIP		2000	5000	2500	6500	7500
On-state resistance Max. (Ω)(R _{ON})			0.5	0.2	0.5	0.07	0.05
Off-state leakage current (μA) (I _{LK})			1	1	1	1	1
Turn-on (msec)(T _{ON})			5	5	5	5	5
Turn-off (msec)(T _{OFF})			2	2	2	2	2
Capacitance (pF)(C _{OUT})			300	---	---	---	---
Current limit typ. (mA)			---	---	---	---	---
Input / Output Characteristics							
I/O Capacitance (pF)(C _{I/O})			5	5	5	5	5
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500	2500	2500	---	---
	SMD/DIP		3750	3750	3750	3750	3750
I/O Isolation resistance (GΩ)(R _{I/O})			5	5	5	5	5
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)				
	Storage (T _{STG})		-40 to +100 (-40 to +212)				

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A064000 211A066000 212A068000	211A064005 211A066005 212A068005	----- 211A066006 -----	----- 211A066007 -----	211A064009 211A066009 212A068009
	SMD		311A064X00 311A066X00 312A068X00	311A064X05 311A066X05 312A068X05	----- 311A066X06 -----	----- 311A066X07 -----	311A064X09 311A066X09 312A068X09
	SOP		411A064X00 411A066X00 412A068X00	411A064X05 411A066X05 412A068X05	----- 411A066X06 -----	----- ----- -----	411A064X09 411A066X09 412A068X09
Contact form	4PIN / 6PIN		1A	1A	1A	1A	1A
	8PIN		2A	2A	---	---	2A
Input Characteristics							
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5
Reverse voltage at 10μA (V)(V _R)			5	5	5	5	5
Control current (mA)(I _F)			5-50	10-50	10-50	10-50	5-50
Output Characteristics							
Load voltage (V)(AC peak or DC)(V _L)			60	60	60	60	60
Continuous rated load current (mA)(I _L)	SOP		500	900	1500	---	500
	SMD/DIP		550	1100	1800	2500	550
Peak current (mA)(I _{LPeak})	SOP		1000	1500	2500	---	1000
	SMD/DIP		1000	1500	2500	4000	1000
On-state resistance Max. (Ω)(R _{ON})			1.4	0.7	0.3	0.2	1.4
Off-state leakage current (μA) (I _{LK})			1	1	1	1	1
Turn-on (msec)(T _{ON})			1	5	5	5	1
Turn-off (msec)(T _{OFF})			1	2	2	2	1
Capacitance (pF)(C _{OUT})			150	300	---	---	150
Current limit typ. (mA)			---	---	---	---	---
Input / Output Characteristics							
I/O Capacitance (pF)(C _{I/O})			5	5	5	5	5
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500	2500	2500	---	3000
	SMD/DIP		3750	3750	3750	3750	5000
I/O Isolation resistance (GΩ)(R _{I/O})			5	5	5	5	5
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)				
	Storage (T _{STG})		-40 to +100 (-40 to +212)				

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A084000 211A086000 212A088000	211A084009 211A086009 212A088009	211A104000 211A106000 212A108000	211A104005 211A106005 212A108005	211A104009 211A106009 212A108009
	SMD		311A084X00 311A086X00 312A088X00	311A084X09 311A086X09 312A088X09	311A104X00 311A106X00 312A108X00	311A104X05 311A106X05 312A108X05	311A104X09 311A106X09 312A108X09
	SOP		411A084X00 411A086X00 412A088X00	411A084X09 411A086X09 412A088X09	411A104X00 411A106X00 412A108X00	----- 411A106X05 -----	411A104X09 411A106X09 412A108X09
Contact form	4PIN / 6PIN		1A	1A	1A	1A	1A
	8PIN		2A	2A	2A	2A	2A
Input Characteristics							
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5
Reverse voltage at 10μA (V)(V _R)			5	5	5	5	5
Control current (mA)(I _F)			5-50	5-50	5-50	10-50	5-50
Output Characteristics							
Load voltage (V)(AC peak or DC)(V _L)			80	80	100	100	100
Continuous rated load current (mA)(I _L)	SOP		120	120	310	1300	310
	SMD/DIP		120	120	350	1600	350
Peak current (mA)(I _{LPeak})	SOP		250	250	900	2500	900
	SMD/DIP		250	250	900	2500	900
On-state resistance Max. (Ω)(R _{ON})			12	12	5	0.25	5
Off-state leakage current (μA) (I _{LK})			1	1	1	1	1
Turn-on (msec)(T _{ON})			1	1	1	5	1
Turn-off (msec)(T _{OFF})			1	1	1	2	1
Capacitance (pF)(C _{OUT})			25	25	---	---	---
Current limit typ. (mA)			---	---	---	---	---
Input / Output Characteristics							
I/O Capacitance (pF)(C _{I/O})			5	5	5	5	5
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500	3000	2500	2500	3000
	SMD/DIP		3750	5000	3750	3750	5000
I/O Isolation resistance (GΩ)(R _{I/O})			5	5	5	5	5
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)				
	Storage (T _{STG})		-40 to +100 (-40 to +212)				

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A204000 211A206000 212A208000	211A204009 211A206009 212A208009	211A254000 211A256000 212A258000	211A254002 211A256002 212A258002	211A254009 211A256009 212A258009		
	SMD		311A204X00 311A206X00 312A208X00	311A204X09 311A206X09 312A208X09	311A254X00 311A256X00 312A258X00	311A254X02 311A256X02 312A258X02	311A254X09 311A256X09 312A258X09		
	SOP		411A204X00 411A206X00 412A208X00	411A204X09 411A206X09 412A208X09	411A254X00 411A256X00 412A258X00	411A254X02 411A256X02 412A258X02	411A254X09 411A256X09 412A258X09		
	Contact form		4PIN / 6PIN	1A	1A	1A	1A	1A	
			8PIN	2A	2A	2A	2A	2A	
	Input Characteristics								
	Forward voltage (V)(V _F)		0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5		
	Reverse voltage at 10μA (V)(V _R)		5	5	5	5	5		
	Control current (mA)(I _F)		5-50	5-50	5-50	5-50	5-50		
Output Characteristics									
Load voltage (V)(AC peak or DC)(V _L)		200	200	250	250	250			
Continuous rated load current (mA)(I _L)	SOP	150	150	140	140	140			
	SMD/DIP	200	200	180	200	180			
Peak current (mA)(I _{LPeak})	SOP	300	300	300	300	300			
	SMD/DIP	400	400	350	350	350			
On-state resistance Max. (Ω)(R _{ON})		10	10	10	8	10			
Off-state leakage current (μA) (I _{LK})		1	1	1	1	1			
Turn-on (msec)(T _{ON})		1	1	1	1	1			
Turn-off (msec)(T _{OFF})		1	1	1	1	1			
Capacitance (pF)(C _{OUT})		100	100	100	---	100			
Current limit typ. (mA)		---	---	---	---	---			
Input / Output Characteristics									
I/O Capacitance (pF)(C _{I/O})		5	5	5	5	5			
I/O Isolation voltage (VAC)(V _{I/O})	SOP	2500	3000	2500	2500	3000			
	SMD/DIP	3750	5000	3750	3750	5000			
I/O Isolation resistance (GΩ)(R _{I/O})		5	5	5	5	5			
Temperature limits	Operating (T _{OP})	-40 to +85 (-40 to +185)							
	Storage (T _{STG})	-40 to +100 (-40 to +212)							

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A354000 211A356000 212A358000	211A354001 211A356001 212A358001	211A354002 211A356002 212A358002	211A354009 211A356009 212A358009
	SMD		311A354X00 311A356X00 312A358X00	311A354X01 311A356X01 312A358X01	311A354X02 311A356X02 312A358X02	311A354X09 311A356X09 312A358X09
	SOP		411A354X00 411A356X00 412A358X00	411A354X01 411A356X01 412A358X01	411A354X02 411A356X02 412A358X02	411A354X09 411A356X09 412A358X09
Contact form	4PIN / 6PIN		1A	1A	1A	1A
	8PIN		2A	2A	2A	2A
Input Characteristics						
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5
Reverse voltage at 10μA (V)(V _R)			5	5	5	5
Control current (mA)(I _F)			5-50	5-50	5-50	5-50
Output Characteristics						
Load voltage (V)(AC peak or DC)(V _L)			350	350	350	350
Continuous rated load current (mA)(I _L)	SOP		100	80	130	100
	SMD/DIP		130	100	170	130
Peak current (mA)(I _{L-Peak})	SOP		300	200	300	300
	SMD/DIP		300	250	300	300
On-state resistance Max. (Ω)(R _{ON})			30	50	16	30
Off-state leakage current (μA) (I _{LK})			1	1	1	1
Turn-on (msec)(T _{ON})			1	1.5	1	1
Turn-off (msec)(T _{OFF})			1	1	1	1
Capacitance (pF)(C _{OUT})			100	---	200	---
Current limit typ. (mA)			---	---	---	---
Input / Output Characteristics						
I/O Capacitance (pF)(C _{I/O})			5	5	5	5
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500	2500	2500	3000
	SMD/DIP		3750	3750	3750	5000
I/O Isolation resistance (GΩ)(R _{I/O})			5	5	5	5
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)			
	Storage (T _{STG})		-40 to +100 (-40 to +212)			

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A404000 211A406000 212A408000	211A404002 211A406002 212A408002	211A404009 211A406009 212A408009	211A604000 211A606000 212A608000	211A604009 211A606009 212A608009		
	SMD		311A404X00 311A406X00 312A408X00	311A404X02 311A406X02 312A408X02	311A404X09 311A406X09 312A408X09	311A604X00 311A606X00 312A608X00	311A604X09 311A606X09 312A608X09		
	SOP		411A404X00 411A406X00 412A408X00	411A404X02 411A406X02 412A408X02	411A404X09 411A406X09 412A408X09	411A604X00 411A606X00 412A608X00	411A604X09 411A606X09 412A608X09		
	Contact form		4PIN / 6PIN	1A	1A	1A	1A	1A	
			8PIN	2A	2A	2A	2A	2A	
	Input Characteristics								
	Forward voltage (V)(V _F)		0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5		
	Reverse voltage at 10μA (V)(V _R)		5	5	5	5	5		
	Control current (mA)(I _F)		5-50	5-50	5-50	5-50	5-50		
Output Characteristics									
Load voltage (V)(AC peak or DC)(V _L)		400	400	400	600	600			
Continuous rated load current (mA)(I _L)	SOP	100	120	100	50	50			
	SMD/DIP	130	150	130	70	70			
Peak current (mA)(I _{L-Peak})	SOP	250	300	250	100	100			
	SMD/DIP	300	300	300	120	120			
On-state resistance Max. (Ω)(R _{ON})		30	16	30	70	70			
Off-state leakage current (μA) (I _{LK})		1	1	1	1	1			
Turn-on (msec)(T _{ON})		1	1	1	1	1			
Turn-off (msec)(T _{OFF})		1	1	1	1	1			
Capacitance (pF)(C _{OUT})		70	---	70	100	100			
Current limit typ. (mA)		---	---	---	---	---			
Input / Output Characteristics									
I/O Capacitance (pF)(C _{I/O})		5	5	5	5	5			
I/O Isolation voltage (VAC)(V _{I/O})	SOP	2500	2500	3000	2500	3000			
	SMD/DIP	3750	3750	5000	3750	5000			
I/O Isolation resistance (GΩ)(R _{I/O})		5	5	5	5	5			
Temperature limits	Operating (T _{OP})	-40 to +85 (-40 to +185)							
	Storage (T _{STG})	-40 to +100 (-40 to +212)							

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211B064000 211B066000 212B068000	211B064009 211B066009 212B068009	211B204000 211B206000 212B208000	211B204009 211B206009 212B208009
	SMD		311B064X00 311B066X00 312B068X00	311B064X09 311B066X09 312B068X09	311B204X00 311B206X00 312B208X00	311B204X09 311B206X09 312B208X09
	SOP		411B064X00 411B066X00 412B068X00	411B064X09 411B066X09 412B068X09	411B204X00 411B206X00 412B208X00	411B204X09 411B206X09 412B208X09
Contact form	4PIN / 6PIN		1B	1B	1B	1B
	8PIN		2B	2B	2B	2B
Input Characteristics						
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5
Reverse voltage at 10μA (V)(V _R)			5	5	5	5
Control current (mA)(I _F)			5-50	5-50	5-50	5-50
Output Characteristics						
Load voltage (V)(AC peak or DC)(V _L)			60	60	200	200
Continuous rated load current (mA)(I _L)	SOP		500	500	80	80
	SMD/DIP		550	550	100	100
Peak current (mA)(I _{LPeak})	SOP		1000	1000	200	200
	SMD/DIP		1000	1000	250	250
On-state resistance Max. (Ω)(R _{ON})			1.4	1.4	50	50
Off-state leakage current (μA) (I _{LK})			10	10	10	10
Turn-on (msec)(T _{ON})			1	1	1	1
Turn-off (msec)(T _{OFF})			1	1	1	1
Capacitance (pF)(C _{OUT})			---	---	200	200
Current limit typ. (mA)			---	---	---	---
Input / Output Characteristics						
I/O Capacitance (pF)(C _{I/O})			5	5	5	5
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500	3000	2500	3000
	SMD/DIP		3750	5000	3750	5000
I/O Isolation resistance (GΩ)(R _{I/O})			5	5	5	5
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)			
	Storage (T _{STG})		-40 to +100 (-40 to +212)			

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211B354000 211B356X00 212B358X00	211B354009 211B356X09 212B358X09	211B404000 211B406X00 212B408X00	211B404009 211B406X09 212B408X09
	SMD		311B354000 311B356X00 312B358X00	311B354009 311B356X09 312B358X09	311B404000 311B406X00 312B408X00	311B404009 311B406X09 312B408X09
	SOP		411B354000 411B356X00 412B358X00	411B354009 411B356X09 412B358X09	411B404000 411B406X00 412B408X00	411B404009 411B406X09 412B408X09
Contact form	4PIN / 6PIN		1B	1B	1B	1B
	8PIN		2B	2B	2B	2B
Input Characteristics						
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5
Reverse voltage at 10μA (V)(V _R)			5	5	5	5
Control current (mA)(I _F)			5-50	5-50	5-50	5-50
Output Characteristics						
Load voltage (V)(AC peak or DC)(V _L)			350	350	400	400
Continuous rated load current (mA)(I _L)	SOP		80	80	80	80
	SMD/DIP		100	100	100	100
Peak current (mA)(I _{L-Peak})	SOP		200	200	200	200
	SMD/DIP		250	250	250	250
On-state resistance Max. (Ω)(R _{ON})			50	50	50	50
Off-state leakage current (μA) (I _{LK})			10	10	10	10
Turn-on (msec)(T _{ON})			1	1	1	1
Turn-off (msec)(T _{OFF})			1	1	1	1
Capacitance (pF)(C _{OUT})			200	200	200	200
Current limit typ. (mA)			---	---	---	---
Input / Output Characteristics						
I/O Capacitance (pF)(C _{I/O})			5	5	5	5
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500	3000	2500	3000
	SMD/DIP		3750	5000	3750	5000
I/O Isolation resistance (GΩ)(R _{I/O})			5	5	5	5
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)			
	Storage (T _{STG})		-40 to +100 (-40 to +212)			

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	----- 211C068000		----- 211C068009		----- 211C208000		----- 211C208009	
	SMD		----- 311C068X00		----- 311C068X09		----- 311C208X00		----- 311C208X09	
	SOP		----- 411C068X00		----- 411C068X09		----- 411C208X00		----- 411C208X09	
Contact form	4PIN / 6PIN		---		---		---		---	
	8PIN		1A	1B	1A	1B	1A	1B	1A	1B
Input Characteristics										
Forward voltage (V)(V _F)			0.9-1.5		0.9-1.5		0.9-1.5		0.9-1.5	
Reverse voltage at 10μA (V)(V _R)			5		5		5		5	
Control current (mA)(I _F)			5-50		5-50		5-50		5-50	
Output Characteristics										
Load voltage (V)(AC peak or DC)(V _L)			60	60	60	60	200	200	200	200
Continuous rated load current (mA)(I _L)	SOP		500	500	500	500	150	80	150	80
	SMD/DIP		550	550	550	550	200	100	200	100
Peak current (mA)(I _{LPeak})	SOP		1000	1000	1000	1000	300	200	300	200
	SMD/DIP		1000	1000	1000	1000	400	250	400	250
On-state resistance Max. (Ω)(R _{ON})			1.4	1.4	1.4	1.4	10	50	10	50
Off-state leakage current (μA) (I _{LK})			1	10	1	10	1	10	1	10
Turn-on (msec)(T _{ON})			1	1	1	1	1	1	1	1
Turn-off (msec)(T _{OFF})			1	1	1	1	1	1	1	1
Capacitance (pF)(C _{OUT})			150	---	150	---	100	200	100	200
Current limit typ. (mA)			---	---	---	---	---	---	---	---
Input / Output Characteristics										
I/O Capacitance (pF)(C _{I/O})			5		5		5		5	
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500		3000		2500		3000	
	SMD/DIP		3750		5000		3750		5000	
I/O Isolation resistance (GΩ)(R _{I/O})			5		5		5		5	
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)							
	Storage (T _{STG})		-40 to +100 (-40 to +212)							

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	----- 211C358000		----- 211C358009		----- 211C408000		----- 211C408009	
	SMD		----- 311C358X00		----- 311C358X09		----- 311C408X00		----- 311C408X09	
	SOP		----- 411C358X00		----- 411C358X09		----- 411C408X00		----- 411C408X09	
Contact form	4PIN / 6PIN		---		---		---		---	
	8PIN		1A	1B	1A	1B	1A	1B	1A	1B
Input Characteristics										
Forward voltage (V)(V _F)			0.9-1.5		0.9-1.5		0.9-1.5		0.9-1.5	
Reverse voltage at 10μA (V)(V _R)			5		5		5		5	
Control current (mA)(I _F)			5-50		5-50		5-50		5-50	
Output Characteristics										
Load voltage (V)(AC peak or DC)(V _L)			350	350	350	350	400	400	400	400
Continuous rated load current (mA)(I _L)	SOP		100	80	100	80	100	80	100	80
	SMD/DIP		130	100	130	100	130	100	130	100
Peak current (mA)(I _{L-Peak})	SOP		300	200	300	200	250	250	250	250
	SMD/DIP		300	250	300	250	300	250	300	250
On-state resistance Max. (Ω)(R _{ON})			30	50	30	50	30	50	30	50
Off-state leakage current (μA) (I _{LK})			1	10	1	10	1	10	1	10
Turn-on (msec)(T _{ON})			1	1	1	1	1	1	1	1
Turn-off (msec)(T _{OFF})			1	1	1	1	1	1	1	1
Capacitance (pF)(C _{OUT})			---	200	---	200	70	150	70	150
Current limit typ. (mA)			---	---	---	---	---	---	---	---
Input / Output Characteristics										
I/O Capacitance (pF)(C _{I/O})			5		5		5		5	
I/O Isolation voltage (VAC)(V _{I/O})	SOP		2500		3000		2500		3000	
	SMD/DIP		3750		5000		3750		5000	
I/O Isolation resistance (GΩ)(R _{I/O})			5		5		5		5	
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)							
	Storage (T _{STG})		-40 to +100 (-40 to +212)							

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211A354000L 211A356000L 212A358000L	211A354001L 211A356001L 212A358001L	211A354002L 211A356002L 212A358002L	211A404000L 211A406000L 212A408000L	211A404002L 211A406002L 212A408002L		
	SMD		311A354X00L 311A356X00L 312A358X00L	311A354X01L 311A356X01L 312A358X01L	311A354X02L 311A356X02L 312A358X02L	311A404X00L 311A406X00L 312A408X00L	311A404X02L 311A406X02L 312A408X02L		
	SOP		411A354X00L 411A356X00L 412A358X00L	411A354X01L 411A356X01L 412A358X01L	411A354X02L 411A356X02L 412A358X02L	411A404X00L 411A406X00L 412A408X00L	411A404X02L 411A406X02L 412A408X02L		
	Contact form		4PIN / 6PIN	1A	1A	1A	1A	1A	
			8PIN	2A	2A	2A	2A	2A	
	Input Characteristics								
	Forward voltage (V)(V _F)		0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5		
	Reverse voltage at 10μA (V)(V _R)		5	5	5	5	5		
	Control current (mA)(I _F)		5-50	5-50	5-50	5-50	5-50		
Output Characteristics									
Load voltage (V)(AC peak or DC)(V _L)		350	350	350	400	400			
Continuous rated load current (mA)(I _L)	SOP	100	80	120	100	100			
	SMD/DIP	120	100	120	120	120			
Peak current (mA)(I _{LPeak})	SOP	120	120	120	120	120			
	SMD/DIP	120	120	120	120	120			
On-state resistance Max. (Ω)(R _{ON})		35	55	22	40	22			
Off-state leakage current (μA) (I _{LK})		1	1	1	1	1			
Turn-on (msec)(T _{ON})		3	3	3	3	3			
Turn-off (msec)(T _{OFF})		1	1	1	1	1			
Capacitance (pF)(C _{OUT})		---	---	---	70	---			
Current limit typ. (mA)		180	180	180	180	180			
Input / Output Characteristics									
I/O Capacitance (pF)(C _{I/O})		5	5	5	5	5			
I/O Isolation voltage (VAC)(V _{I/O})	SOP	2500	2500	2500	2500	2500			
	SMD/DIP	3750	3750	3750	3750	3750			
I/O Isolation resistance (GΩ)(R _{I/O})		5	5	5	5	5			
Temperature limits	Operating (T _{OP})	-40 to +85 (-40 to +185)							
	Storage (T _{STG})	-40 to +100 (-40 to +212)							

Part Number (4 PIN) (6 PIN) (8 PIN)	DIP	APR	211AC06000 -----	211AF06000 -----			
	SMD		311AC06X00 -----	311AF06X00 -----			
	SOP		----- ----- -----	----- ----- -----			
Contact form	4PIN / 6PIN		1A	1A			
	8PIN		---	---			
Input Characteristics							
Forward voltage (V)(V _F)			0.9-1.5	0.9-1.5			
Reverse voltage at 10μA (V)(V _R)			5	5			
Control current (mA)(I _F)			5-50	5-50			
Output Characteristics							
Load voltage (V)(AC peak or DC)(V _L)			1200	1500			
Continuous rated load current (mA)(I _L)	SOP		---	---			
	SMD/DIP		45	30			
Peak current (mA)(I _{LPeak})	SOP		---	---			
	SMD/DIP		100	100			
On-state resistance Max. (Ω)(R _{ON})			220	220			
Off-state leakage current (μA) (I _{LK})			1	1			
Turn-on (msec)(T _{ON})			1.5	1.5			
Turn-off (msec)(T _{OFF})			1	1			
Capacitance (pF)(C _{OUT})			---	---			
Current limit typ. (mA)			---	---			
Input / Output Characteristics							
I/O Capacitance (pF)(C _{I/O})			5	5			
I/O Isolation voltage (VAC)(V _{I/O})	SOP		---	---			
	SMD/DIP		3750	3750			
I/O Isolation resistance (GΩ)(R _{I/O})			5	5			
Temperature limits	Operating (T _{OP})		-40 to +85 (-40 to +185)				
	Storage (T _{STG})		-40 to +100 (-40 to +212)				

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