

i4-PAC™, ISOPLUS264, and the Power SIP Relays

Many electronic designs can take advantage of the improved performance of solid-state relays (SSRs) relative to the electro-mechanical relays (EMRs) that perform the same circuit function. The advantages of solid-state relays include the following:

- SSRs are typically smaller than EMRs, preserving valuable real estate in printed-circuit board applications.
- SSRs offer improved system reliability since they have no moving parts or contacts to degrade.
- SSRs provide state-of-the-art performance, including no requirement for driver electronics and bounce-free switching.
- SSRs provide improved system life-cycle costs, including simplified designs with reduced power supply and heat dissipation requirements.
- SIP style package allows for maximum density/minimal PCB space

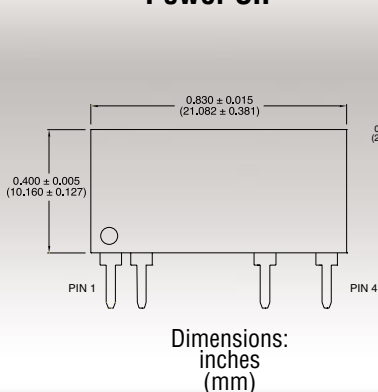
Application Notes

- AN-145, "Advantages of solid state relays over electromechanical relays."

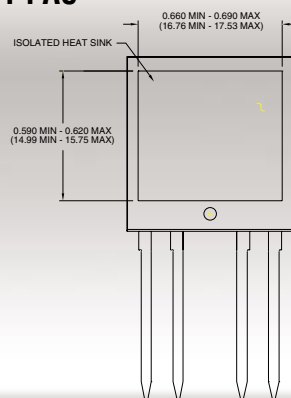
Part Number	Output Type	Blocking Voltage (V _p)	Load Current (A _{rms})	On Resistance (Ohms)	Switching Speeds T _{ON} /T _{OFF} (ms)	Package	Thermal Resistance R _{θJC} (°C/W)
CPC1908J	AC/DC	60	8	0.3	20/5	i4-PAC™	0.35
CPC1928J	AC/DC	200	6	0.2	20/5	i4-PAC™	0.35
CPC1967J	AC/DC	400	3	0.85	20/5	i4-PAC™	0.35
CPC1977J	AC/DC	600	4	1	20/5	i4-PAC™	0.35
CPC1978J	AC/DC	800	2.5	2.3	20/5	i4-PAC™	0.35
CPC1986J	AC/DC	1000	1.2	3	20/5	i4-PAC™	0.35
CPC1909J	AC/DC	60	10	0.1	20/5	ISOPLUS264	0.3
CPC1918J	AC/DC	100	9	0.12	25/10	ISOPLUS264	0.3
CPC1927J	AC/DC	250	7	0.20	25/10	ISOPLUS264	0.3
CPC1979J	AC/DC	600	5	0.75	25/10	ISOPLUS264	0.3
CPC1988J	AC/DC	1000	1.5	2.5	25/10	ISOPLUS264	0.3
CPC1906Y	AC/DC	60	2	0.3	10/5	Power SIP	1.5
CPC1916Y	AC/DC	100	2.5	0.34	10/10	Power SIP	1.5
CPC1926Y	AC/DC	250	0.7	1.4	10/10	Power SIP	1.5
CPC1972Y	AC/DC	600	0.30	6.5	10/5	Power SIP	1.5
CPC1973Y	AC/DC	400	0.35	5	5/3	Power SIP	1.5
CPC1981Y	AC/DC	1000	0.18	18	10/5	Power SIP	1.5
CPC1976Y	AC	600	2	n/a	1/2 cycle	Power SIP	1.5
CPC1708J*	DC	60	11	0.08	20/5	i4-PAC™	0.35
CPC1728J*	DC	200	10	0.10	20/5	i4-PAC™	0.35
CPC1767J*	DC	400	8	0.3	20/5	i4-PAC™	0.35
CPC1777J*	DC	600	6	0.5	20/5	i4-PAC™	0.35
CPC1778J*	DC	800	3	1.3	20/5	i4-PAC™	0.35
CPC1786J	DC	1000	1.5	1.5	20/5	i4-PAC™	0.35
CPC1709J*	DC	60	15	0.05	25/10	ISOPLUS264	0.3
CPC1718J*	DC	100	13	0.075	25/10	ISOPLUS264	0.3
CPC1727J*	DC	250	12	0.09	25/10	ISOPLUS264	0.3
CPC1779J*	DC	600	6.5	0.4	25/10	ISOPLUS264	0.3
CPC1788J*	DC	1000	2	1.25	25/10	ISOPLUS264	0.3

* In Development - Samples Available in Q1-05

Power SIP



i4-PAC™



ISOPLUS264

