

The OptoMOS™ line of power products use dual power SCR outputs to produce an alternative to optocoupler and Triac circuits. These AC Power Switches are robust enough to provide a blocking voltage of up to 800V_p. In addition, tightly controlled zero-cross circuitry ensures switching of AC loads without the generation of transients. The input and

output circuits are optically coupled to provide 3750V_{rms} of isolation and noise immunity between control and load circuits. Long life and environmental integrity make these power switches ideal to control a variety of AC circuits in industrial environments where electromagnetic interference would disrupt the operation of electromechanical relays.

Features

- Load current up to 2A
- Blocking voltage up to 800V_p
- 5mA sensitivity
- Zero-crossing detection
- DC control, AC switching
- Optically isolated I/O
- TTL and CMOS compatible
- Low EMI and RFI generation
- High noise immunity
- VDE compatible
- Machine insertable, wave solderable
- Switching speed < 0.5 cycle

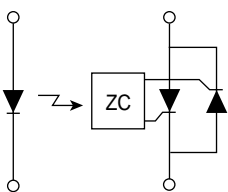
Applications

- Programmable controls
- Process control
- Power control panels
- Remote switching
- Gas pump electronics
- Contactors
- Large relay control circuits
- Solenoids
- Motor controls
- Heater controls

Operational temperature range of -40° to 85°C

Part Number	Blocking Voltage	Load Current	Input Control Current	Operating Frequency	Isolation Voltage	Package Type	Features
► New	V _p	A _{rms}	mA	min/max Hz	V _{rms}		
CPC1943G	240	0.5	5	20 / 400	3750	D, E	
CPC1945G	400	1	5	20 / 400	3750	C	
CPC1945Y	400	1	5	20 / 400	3750	A	
► CPC1961G	600	0.2	5	20 / 400	3750	F, G	Dual
CPC1963G	600	0.5	5	20 / 500	3750	D, E	
CPC1965G	600	1	5	20 / 400	3750	C	
CPC1965Y	600	1	5	20 / 400	3750	A	
CPC1972G	800	0.25	5	20 / 500	3750	D, E	
► CPC1976Y	600	2	5	20 / 500	3750	B	
► PD1201	400	1	5	20 / 500	3750	C	
PD2401	500	1	5	20 / 500	3750	C	
PD2601	600	1	5	20 / 500	3750	C	
PM1204	400	0.5	5	20 / 500	3750	D, E	
PM1205	500	0.5	5	20 / 500	3750	D, E	
PM1206	600	0.5	5	20 / 500	3750	D, E	
PS1201	400	1	5	20 / 500	3750	A	
PS2401	500	1	5	20 / 500	3750	A	
PS2601	600	1	5	20 / 500	3750	A	

Block Diagram



A



B



C



D



E



F



G