



Features

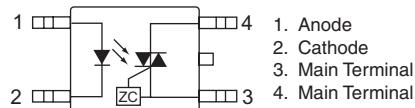
1. Opaque type, SOP package.
2. Subminiature type. Smaller than DIP type by 30%.
3. Isolation voltage between input and output (Viso: 2500VRms).

For 115/240 VRMS Application:

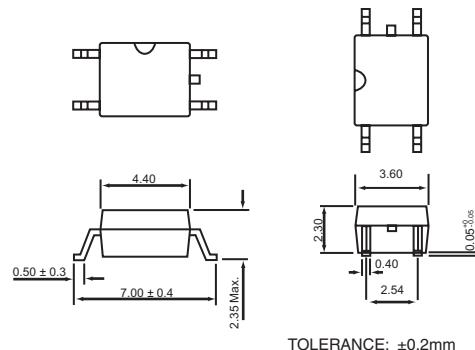
1. Solenoid/Valve Controls.
2. Lighting Controls.
3. Static Power Switches.
4. AC Motor Drives.
5. Temperature Controls.
6. E.M. Contactors.
7. AC Motor Starters.
8. Solid State Relays.
9. Available package types: SOP(shown).

Part Numbering System: Page 2. **Part Marking System:** Page 4.

Schematic: Top View



Outside Dimension: Unit (mm)



Trigger LED Current

Example Part Number
WPPCT - Z 10 6 4 S TRU

Options	Trigger Current(mA)
10 (Standard)	10 max.
7	7 max.
5	5 max.

Absolute Maximum Ratings

(Ta = 25°C)

Parameter		Symbol	Rating	Unit
Input	Forward Current	I _F	50	mA
	Peak Forward Current (100us)	I _{FM}	1	A
	Reverse Voltage	V _R	6	V
	Power Dissipation	P _D	70	mW
Output	Off-State Output Terminal Voltage	V _{DRM}	600	Vpeak
	On-State R.M.S. Current	I _{T(RMS)}	70	mA
	Peak Repetitive Surge Current (PW=10ms, DC 10%)	I _{TSM}	1	A
	Power Dissipation	P _D	150	mW
Total Power Dissipation		P _{tot}	200	mW
Isolation Voltage 1 minute		V _{iso}	2500	Vrms
Operating Temperature		T _{opr}	-40 to +100	°C
Storage Temperature		T _{tsg}	-50 to +125	°C
Solder Temperature 10 seconds		T _{sol}	260	°C

Electro-optical Characteristics

(Ta = 25°C)

Parameter		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V _F	I _F = 10mA	-	1.2	1.4	V
	Peak Forward Voltage	V _{FM}	I _{FM} = 0.5A	-	-	3.5	V
	Reverse Leakage Current	I _R	V _R = 5V	-	-	10	uA
Output	Peak Blocking Current	I _{DRM}	V _{DRM} = 600V	-	-	1.0	uA
	On-State Voltage	V _{TM}	I _{TM} = 70mA	-	1.6	2.8	V
Transfer Characteristics	Holding Current	I _H		-	1.0	-	mA
	Critical Rate of Rise of Off-State Voltage	dV/dt	V _{DRM} = (1/√2) * Rated	100	-	-	V/us
	Isolation resistance	R _{iso}	DC500V	5 x 10 ¹⁰	10 ¹¹	-	ohm
	Minimum Trigger LED Current (Standard, see above table for more options)	I _{FT}	Main Terminal Voltage = 3V	-	5	10	mA
	Inhibit Voltage (MT1-MT2 Voltage above which device will not trigger.)	V _{INH}	I _F = Rated I _{FT}	-	5	20	V
	Leakage in Inhibited State	I _{DRM2}	I _F = Rated I _{FT} , V _T = Rated V _{DRM}	-	-	600	uA



ISOCOUPLER™

WPPCT-Z1064, -Z764, -Z564 Series

Zero Crossing Optoisolators Triac
Driver Output (600VPeak), SOP

USR/CNR Listed (File# E223387)

Data Curves

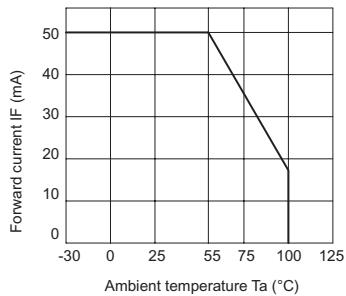
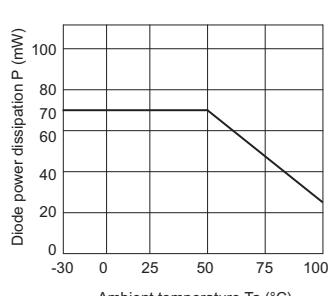
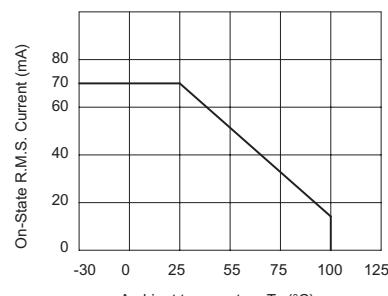
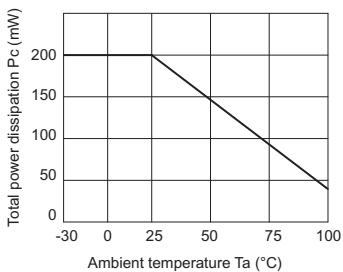
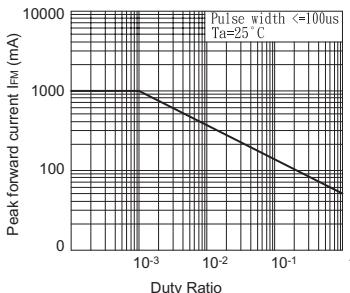
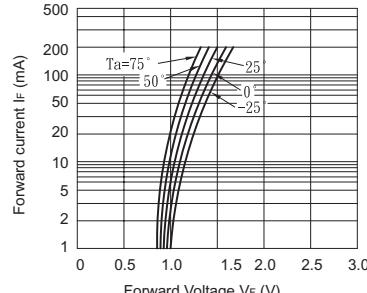
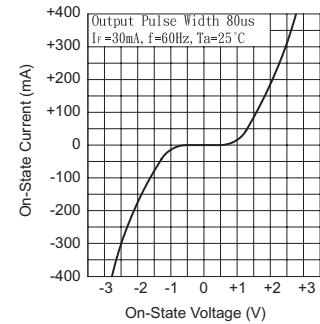
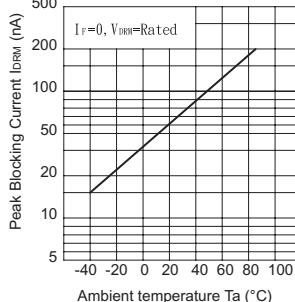
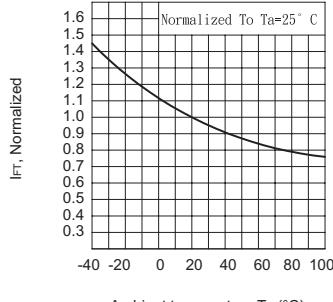
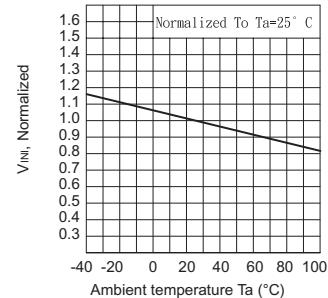
Fig. 1 Forward Current vs.
Ambient TemperatureFig. 2 Diode Power Dissipation vs.
Ambient TemperatureFig. 3 On-State R.M.S. Current vs.
Ambient TemperatureFig. 4 Total Power Dissipation vs.
Ambient TemperatureFig. 5 Peak Forward Current vs.
Duty RatioFig. 6 Forward Current vs.
Forward Voltage

Fig. 7 On-State Characteristics

Fig. 8 Leakage with LED off vs.
Ambient TemperatureFig. 9 Trigger Current vs.
Ambient TemperatureFig. 10 Inhibit Voltage vs.
Ambient TemperatureFig. 11 IDRM2, Leakage in Inhibit vs.
Ambient Temperature