



Features

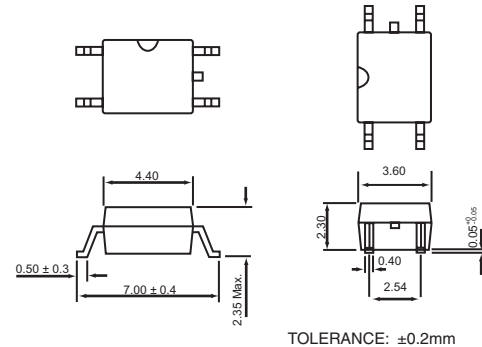
1. Opaque type, SOP package.
2. Subminiature type. Smaller than DIP type by 30%.
3. Isolation voltage between input and output (Viso: 2500Vrms).

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.

Outside Dimension: Unit (mm)



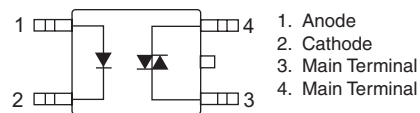
Trigger LED Current

Example Part Number

WPPCT - N 10 4 4 S TRU

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

Schematic: Top View



Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	Rating	Unit
Input	Forward Current	50	mA
	Peak Forward Current (100us)	1	A
	Reverse Voltage	6	V
	Power Dissipation	70	mW
Output	Off-State Output Terminal Voltage	600	Vpeak
	On-State R.M.S. Current	70	mA
	Peak Repetitive Surget Current (PW=10ms, DC 10%)	1	A
	Power Dissipation	150	mW
Total Power Dissipation		200	mW
Isolation Voltage 1 minute		2500	Vrms
Operating Temperature		-40 to +100	°C
Storage Temperature		-50 to +125	°C
Solder Temperature 10 seconds		260	°C

Electro-optical Characteristics

(Ta = 25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward Voltage	IF = 10mA	-	1.2	1.4	V
	Peak Forward Voltage	IFM = 0.5A	-	-	3.5	V
	Reverse Leakage Current	VR = 5V	-	-	10	uA
Output	Peak Blocking Current	VDRM = 600V	-	-	1.0	uA
	On-State Voltage	ITM = 70mA	-	1.6	2.8	V
Transfer Characteristics	Holding Current		-	1.0	-	mA
	Critical Rate of Rise of Off-State Voltage	VDRM = (1/√2) * Rated	100	-	-	V/us
	Isolation resistance	DC500V	5 x 10 ¹⁰	10 ¹¹	-	ohm
	Minimum Trigger LED Current (Standard, see above table for more options)	Main Terminal Voltage = 3V	-	5	10	mA
	Turn-On Time	V _{in} = 6V, RL = 100Ω, IF = 20mA	-	-	100	uS



Data Curves

Fig. 1 Forward Current vs. Ambient Temperature

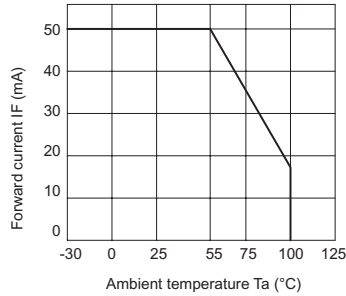


Fig. 2 Diode Power Dissipation vs. Ambient Temperature

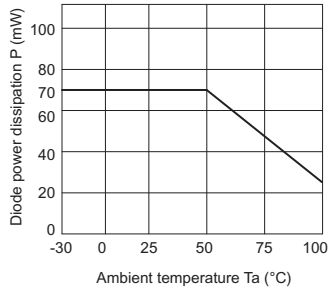


Fig. 3 On-State R.M.S. Current vs. Ambient Temperature

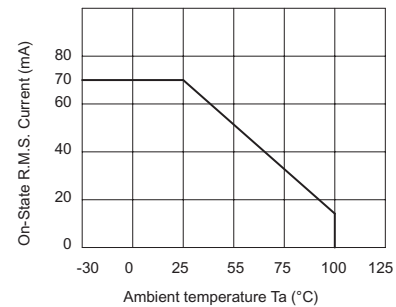


Fig. 4 Total Power Dissipation vs. Ambient Temperature

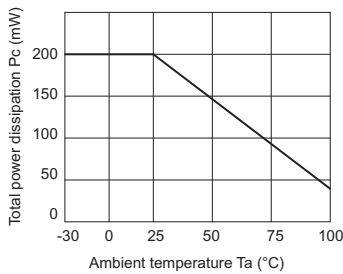


Fig. 5 Peak Forward Current vs. Duty Ratio

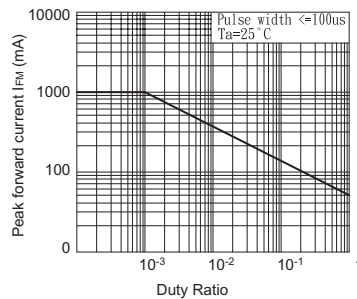


Fig. 6 Forward Current vs. Forward Voltage

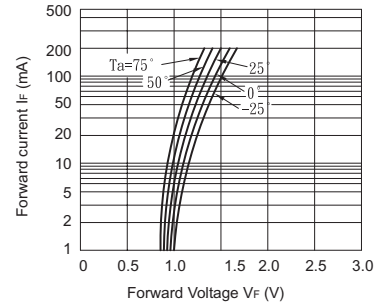


Fig. 7 On-State Characteristics

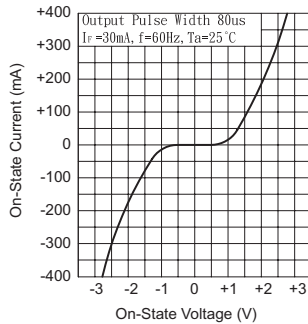


Fig. 8 Leakage with LED off vs. Ambient Temperature

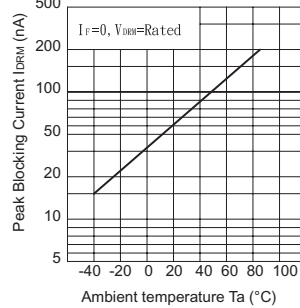


Fig. 9 Trigger Current vs. Ambient Temperature

