

Features

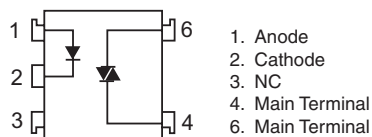
1. Compact dual-in-line package.
2. 600V peak blocking voltage.
3. Isolation voltage between input and output (Viso: 5000Vrms).

For 115/240 VRMS Application:

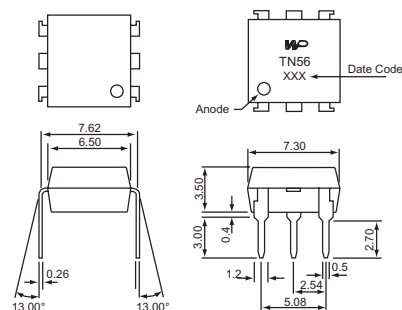
1. Solenoid/Valve Controls.
2. Lighting Controls.
3. Static Power Switches.
4. AC Motor Drives.
5. Temperature Controls.
6. E.M. Contactors.
7. AC Motor Starters.
8. Solid State Relays.
9. Programmable Controllers.
10. Available package types: DIP(shown), SMD, H (Page 147).

Part Numbering System: Page 2. **Part Marking System:** Page 3.

Schematic: Top View



Outside Dimension: Unit (mm)



TOLERANCE: $\pm 0.2\text{mm}$

Trigger LED Current

Example Part Number

WPPCT - N 15 6 6 D TRU

Options	Trigger Current(mA)
15	15 max.
10	10 max.
5	5 max.

Absolute Maximum Ratings

($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Rating	Unit
Input	Forward Current	I _F	50	mA
	Peak Forward Current	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	V _{peak}
	On-State R.M.S. Current	I _{T(RMS)}	100	mA
	Peak Repetitive Surge Current (PW=10ms, DC 10%)	I _{TSM}	1	A
	Power Dissipation	P _D	300	mW
Total Power Dissipation		P _{tot}	330	mW
Isolation Voltage 1 minute		V _{iso}	5000	V _{rms}
Operating Temperature		T _{opr}	-40 to +80	°C
Storage Temperature		T _{stg}	-50 to +125	°C
Solder Temperature 10 seconds		T _{sol}	260	°C

Electro-optical Characteristics

($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	$I_F = 10\text{mA}$	-	1.2	1.4	V
	Peak Forward Voltage	V_{FM}	$I_{FM} = 0.5\text{A}$	-	-	3.5	V
	Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	μA
Output	Peak Blocking Current	I_{DRM}	$V_{DRM} = 600\text{V}$	-	-	100	nA
	On-State Voltage	V_{TM}	$I_{TM} = 100\text{mA}$	-	1.6	2.8	V
Transfer Characteristics	Holding Current	I_H		-	0.1	-	mA
	Critical Rate of Rise of Off-State Voltage	dV/dt	$V_{DRM} = (1/\sqrt{2}) * \text{Rated}$	600	1000	-	V/us
	Isolation Resistance	Riso	DC500V	5×10^{10}	10^{11}	-	ohm
	Trigger LED Current (Standard, see above table for more options)	I_{FT}	Main Terminal Voltage = 3V	-	-	15	mA
	Turn-On Time	T_{ON}	$V_D = 6\text{V}, R_L = 100\Omega, I_F = 20\text{mA}$	-	-	100	μS

Data Curves

