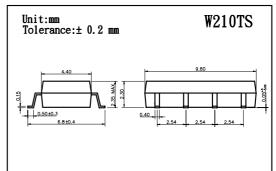
COSMO

FEATURES

- Photo Mos Relay and Optocoupler in One Package
- Control 350VAC or DC Voltage
- Switch 130mA Loads
- LED control Current, 5mA
- Low ON-Resistance
- dv/dt, >500V/ms
- Isolation Test Voltage, 1500VACrms

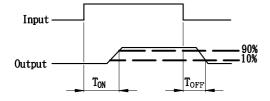


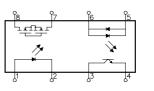
Absolute Maximum Ratings(Ta=25°C)

Emitter(Input)

Reverse Voltage5.0VContinuous Forward Current50mAPeak Forward Current1APower Dissipation100mWDerate Linearly from 25° C1.3mW/°C
Detector(Output)
Output Breakdown Voltage± 350VContinuous Load Current± 130mAPower Dissipation500mW
General Characteristics
$ \begin{array}{llllllllllllllllllllllllllllllllllll$

• Turn on/Turn off time





1 FORM A NORMALLY OPEN

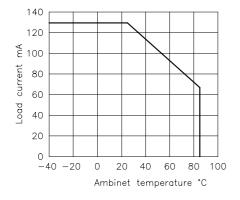
⊸7

Characterisitcs (Ta=25°C)										
Description	Symbol	bol Min. Typ. Max. Unit T		Test Condition						
Emitter(Input)										
Forward Voltage	VF		1.2	1.5	V	IF=10mA				
Operation Input Current	IFON 5		mA	VL=± 20V, IL=100mA						
						t=10mS				
Recovery Input Current	IFOFF	0.2			mA	VL=± 20V, IL<=5uA				
Detector (output)										
Output Breakdown Voltage	VB	350			V	IB=50uA				
Output Off-State Leakage	IT(OFF)		0.2	1	uA	VT=100V, IF=0mA				
I/O Capacitance	CISO		6		pF	IF=0, f=1MHz				
ON Resistance	RON		20	30	Ω	IL=100mA, IF=10mA				
Turn-on Time	TON		0.3	1.0	ms	IF=10mA, VL=± 20V				
Turn-off Time	TOFF		0.7	1.5	ms	t=10ms, IL=± 100mA				

Mos Relay Schematic and Wiring Diagrams								
Туре	Schematic	Output configur -ation	Load	Con- nection	Wiring Diagrams			
W210TS		la	AC/DC	_	$E_{1} \underbrace{\downarrow r}_{0} \downarrow$			

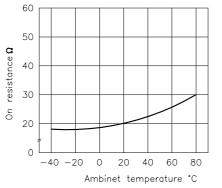
DATA CURVE

Allowable ambient temperature: -40℃ to +85℃



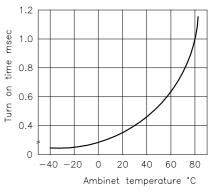
Across terminals 7 and 8 pin LED current: 5mA

Continuouse load current: 130mA(DC)

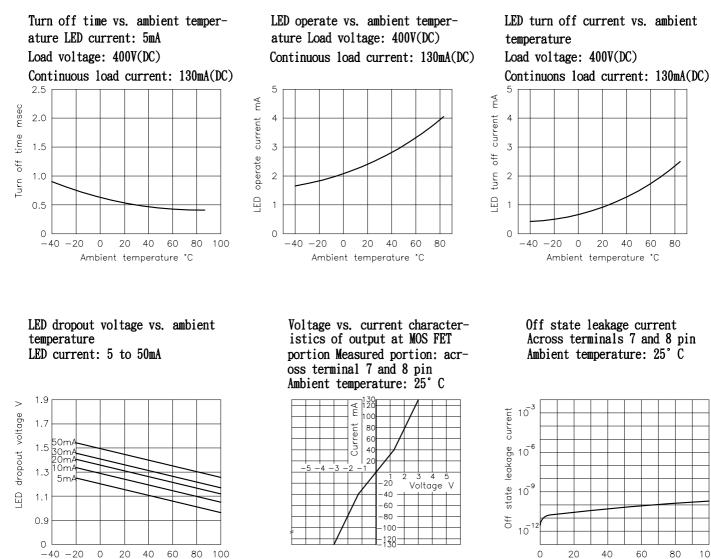


Load current vs. ambient temperature On resistance vs. ambient temperature Trun on time vs. ambient temperature Load voltage 400V(DC) LED current: 5mA

Continuouse load current: 130mA(DC)

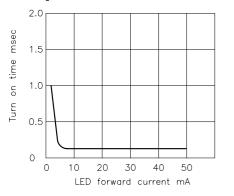


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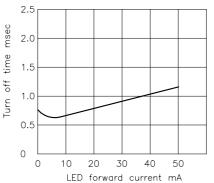


Ambient temperature °C

LED forward current vs. turn on time Across terminals 7 and 8 pin load voltage: 400V(DC);Continuous load current:130mA(DC);Ambient temperature: 25°C



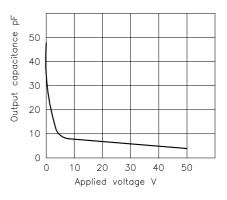
LED forward current vs. turn off time Across terminals 7 and 8 pin load voltage: 400V(DC);Continuous load current:130mA(DC);Ambient temperature: 25°C



Applied voltage vs. output capacitance Across terminals 7 and 8 pin Frequency: 1MHz;Ambient Ċ temperature 25°

Load voltage V

100



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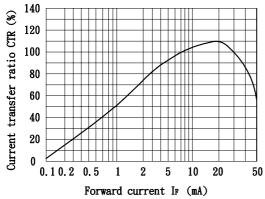
ADSOIU	ADSOLUTE MAXIMUM KATINGS					
	Parameter	Symbol	Rating	Unit		
	Forward current	IF	± 50	mA		
Input	Peak forward current	IFM	± 1	A		
	Power dissipation	PD	70	mW		
Output	Collector-emitter voltage	VCEO	60	V		
	Emitter-collector voltage	V ECO	6	v		
	Collector current	Ic	50	mA		
	Collector power dissipation	Pc	150	mW		
	Total power dissipation	P tot	200	mW		
	Isolation voltage 1 minute	Viso	1500	Vrms		
	Operating temperature	Topr	-30 to +100	°C		
	Storage temperature	Tstg	-55 to +125	°C		
	Soldering temperature 10 second	Tsol	260	°C		

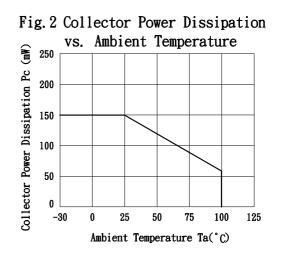
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• Electro-optical Characteristics

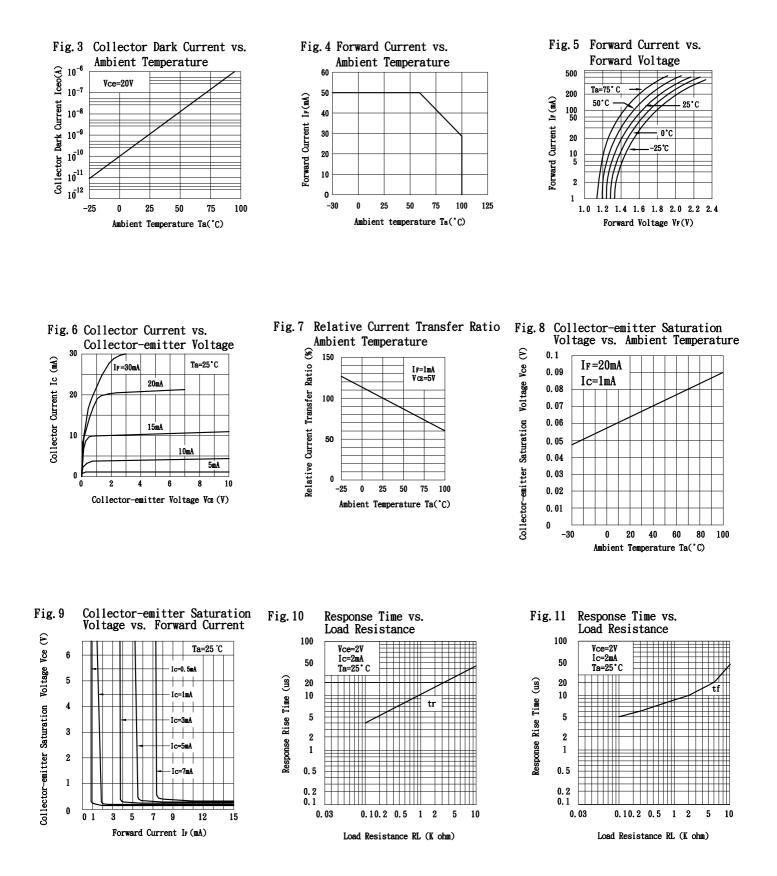
(Ta=25°C) Parameter Symbol [Variable] Conditions MIN. TYP. MAX. Unit Forward voltage VF IF=± 20mA 1.2 1.4 V Input Peak forward voltage IFM =± 0.5A V V FM 3.5 -Terminal capacitance Ct V=0, f=1kHz 30 pF Output Collector dark current VCE = 20V, IF = 0 ICE0 _ 0.1 uA Current transfer ratio IF=± 1mA, VCE=5V 100 CTR % 30 Collector-emitter saturation voltage VCE(sat) IF=± 20mA, IC=1mA 0.1 0.3 V Transfer 5x10¹⁰ Isolation resistance 10 11 Riso DC500V ohm charac-Floating capacitance V=0, f=1MHz Cf 0.6 1.0 pF teristics Cut-off frequency fc Vcc =5V, Ic=2mA, RL=100ohm _ 80 kHz Response time (Rise) 20 _ 5 tr us Vcc =2V, Ic=2mA, RL=100ohm Response time (Fall) 20 tſ _ 4 us

Current Transfer Ratio vs. Fig.1 Forward Current





<u>W210TS</u>



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