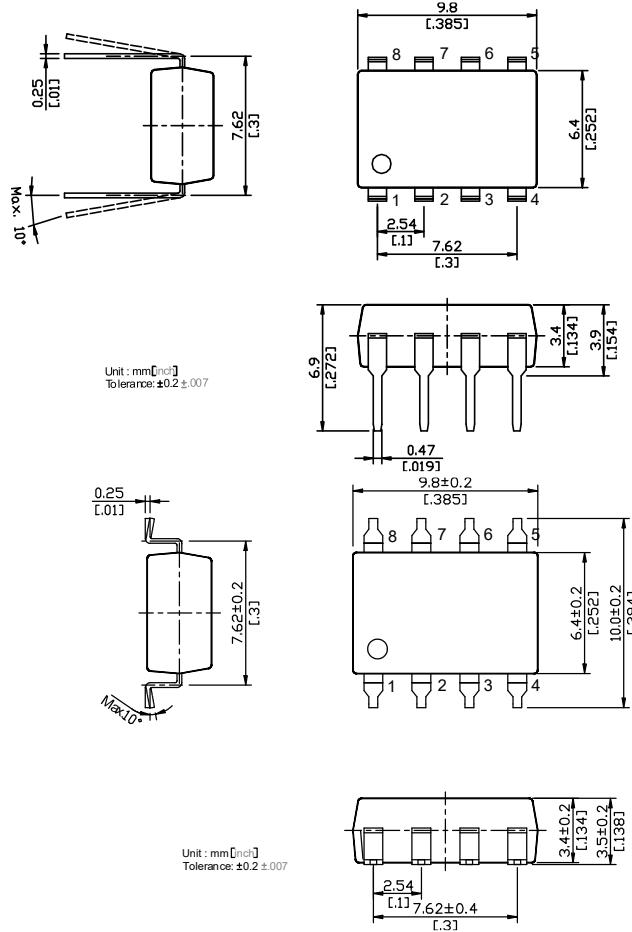


Dual Inline Package 8pin type
of 60V load voltage

PHOTO DMOS RELAY CW6 (H)(A) 1 From A/1 Form B

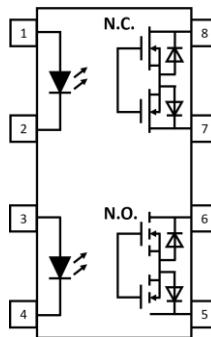


FEATURE

1. Continuous load current: Max. 400mA.
2. Load on resistance: Typ. 1Ω(N.O.)/6Ω(N.C.).
3. Loading voltage 60V DC or AC peak.
4. Off-state leakage current: 10µA.
5. Dual Channel

TYPICAL APPLICATIONS

- Measurement and test equipment
- Telecommunications
- Security equipment
- Industrial machinery and equipment



1,3.	LED Anode
2,4.	LED Cathode
5,6,7,8.	MOSFET Drain

Absolute maximum ratings (Ambient temperature 25 °C)

Item	Symbol	Value	Units	Not
Input	Continuous LED current	I _F	50	mA
	Peak LED current	I _{FP}	1000	mA f=100Hz, DC 1%
	LED reverse voltage	V _R	5	V
	Input power dissipation	P _{in}	75	mW
Output	Load voltage	V _L	60	V DC or AC peak
	Load current	I _L	400	mA
	Peak load current	I _{peak}	700	mA 100ms(1 pulse)
	Output power dissipation	P _{out}	450	mW
Total power dissipation	P _T	500	mW	
I/O isolation voltage	V _{iso}	3750	Vrms	RH 60, 1min
I/O isolation voltage(H)		5000	Vrms	RH 60, 1min
Operating temperature	T _{opr}	-40 to +85	°C	
Storage temperature	T _{stg}	-40 to +100	°C	
Soldering temperature	T _{sol}	260	°C	10sec max.

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Electrical specifications (Ambient temperature 25 °C)								
	Item	Symbol	Min.	Typ.	Max.	Units	Condition	
Input	LED forward voltage	V_F		1.2	1.5	V	$I_F=10mA$	
	Operating LED current	I_{Fon}		0.5	5.0	mA		
	Recover LED current	I_{Foff}	0.1	0.35		mA		
	Recover LED voltage	V_{Foff}	0.5			V		
Output	On resistance	$R_{on}(N.O.)$		1.0	1.4	Ω	$I_F=10mA(N.O.)$	
		$R_{on}(N.C.)$		6.0	10.0		$I_F=0mA(N.C.)$	
	Off-state leakage current	I_{leak}			10.0	μA	$I_F=0mA(N.O.)$ $I_F=10mA(N.C.)$ $V_L=Rating$	
	Output capacitance	C_{out}		150		pF	$I_F=10mA, V_L=0V, f=1MHz$	
Transmission	Turn on time	$T_{on}(N.O.)$		0.5	1.0	ms	$I_F=10mA, I_L=100mA$	
		$T_{on}(N.C.)$		0.05	0.5			
	Turn off time	$T_{off}(N.O.)$		0.03	0.2	ms		
		$T_{off}(N.C.)$		0.5	3.0			
Coupled	I/O isolation resistance	$R_{I/O}$	10^9			Ω	DC 500V	
	I/O capacitance	$C_{I/O}$		0.8	1.5	pF	f=1MHz	

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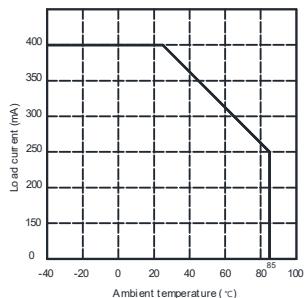
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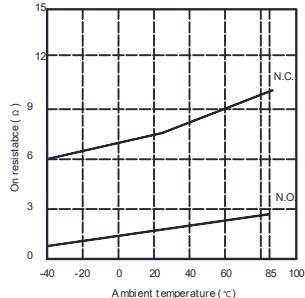
1 Form A/1 Form B Photo Relay

Reference data

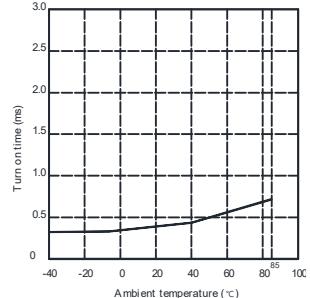
Load current vs. Ambient temperature



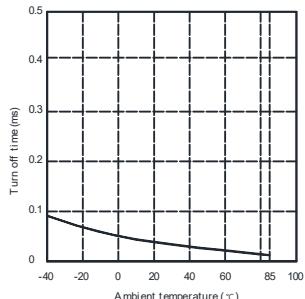
On resistance vs. Ambient temperature



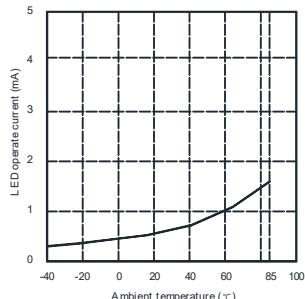
Turn on time vs. Ambient temperature



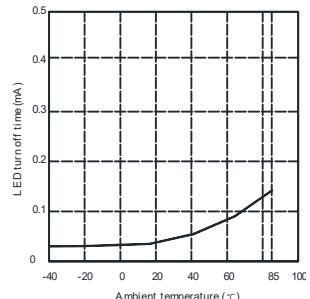
Turn off time vs. Ambient temperature



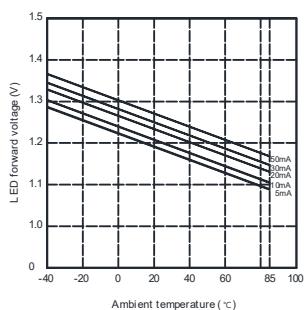
LED operate current vs. Ambient temperature



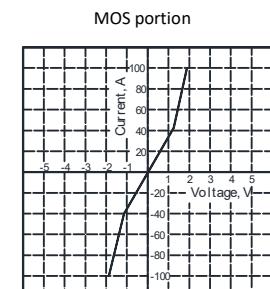
LED turn off current vs. Ambient temperature



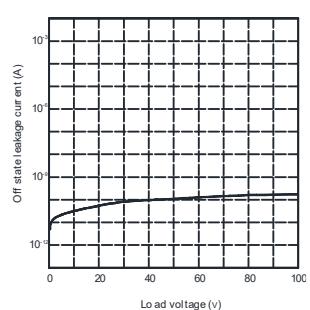
LED forward voltage vs. Ambient temperature



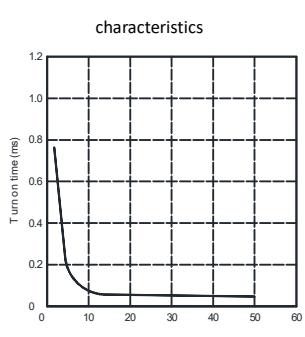
Voltage vs. current characteristics of output at



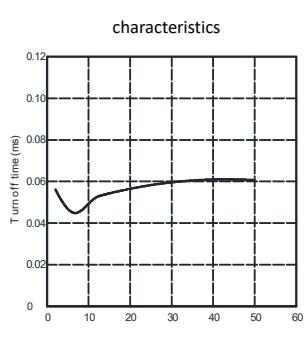
Off state leakage current vs. Load voltage



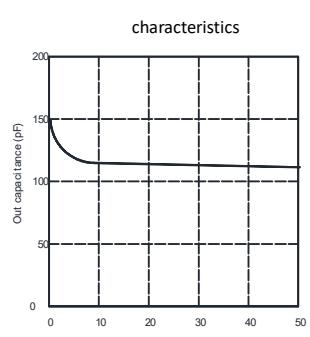
LED forward current vs. Turn on time



LED forward current vs. Turn off time



Applied voltage vs. Output capacitance



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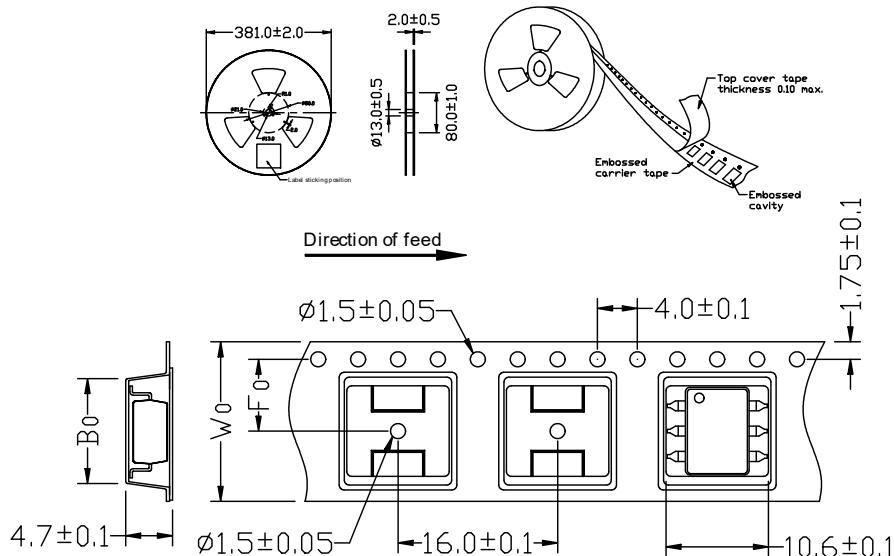


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Taping specifications for surface mount devices



	B ₀ (mm)	F ₀ (mm)	W ₀ (mm)
Specification	10.3±0.1	11.5±0.1	24±0.1

Package	Part No.		Packing quantity	
	Tube packing	Tape & Reel packing	Tube	Tape & Reell
DIP8	CW6 (H)	-	50pcs/1tube	-
SMD8	CW6 (H)A	CW6(H)A-R1		1000 pcs

*H:Option

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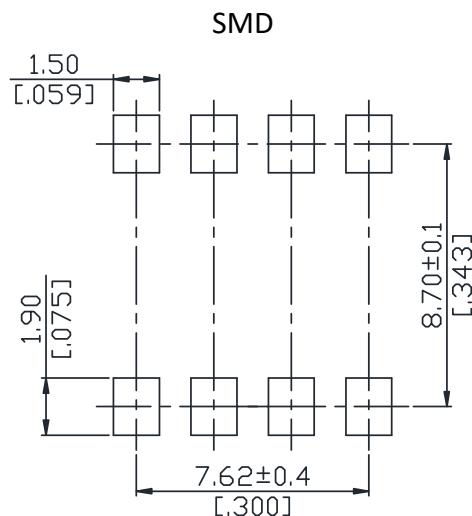
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Dimension

Recommended mounting pad

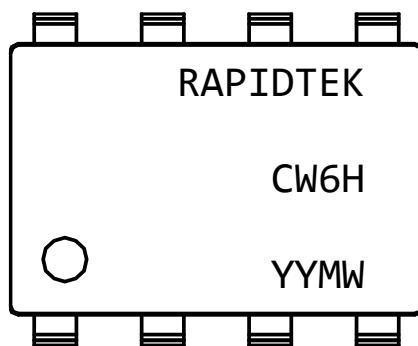


Unit:mm[inch]

Tolerance:±0.2[±0.007]

Marking

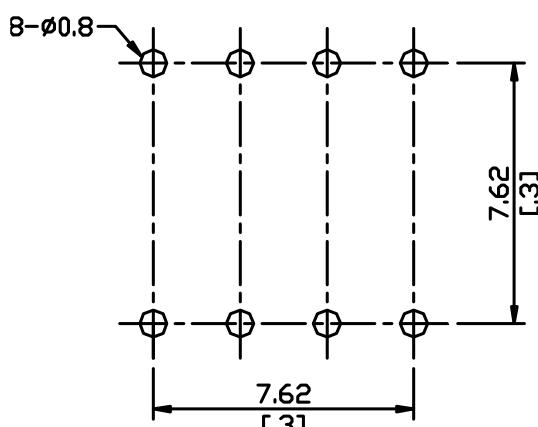
(Each photo MOS Relay shall be marked with the following information)



YY : Year, M : Monthly, W : Weeks

*H:Option

DIP



Unit:mm[inch]

Tolerance:±0.2[±0.007]

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