

Tel: 886-2-29162151 Fax: 886-2-29174598 URL: http://www.princeton.com.tw

Remote Fan Controller IC

PT2128A

### **Description**

PT2128A is a high performance electronic fan controller LSI. Speed control, off-timer, rhythm wind, sleep mode, head swing and/or light control are all built into a single chip. Indicator LED output, buzzer output, key control input, as well as remote control decoding circuitry are all provided to build a full function electronic fan with remote control capability having the highest performance with the least external components. Pin assignment and application circuit are optimized for easy PCB layout and cost saving for electronic fan application.

#### **Features**

	High performance CMOS technology	
	Low power consumption	
	DIP or SO package(22 pin SO not available)	
	Up to 3 dependent/independent swing-head/light output	
	Available in 16, 18, 20, 22, 24 pin package for none, one set or two sets of swing head and/or light control	
	Built-in remote control decoding circuitry with mask option custom code	
	Optional independent light control	
	90 seconds cycle/6 seconds per step(off step 3 seconds) rhythm wind pattern	
	Four operation modes: ordinary, rhythm, ordinary sleep and rhythm sleep.	
	Memory start-up mode	
	2-3 seconds middle wind start-up (mask option)	
Applications		
A	Applications	
	Optimized for fan application Suitable for heater fan, cooling fan, and other home appliances with remote control, timer and/or output level control	

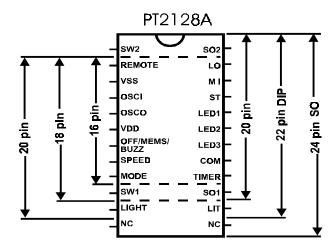
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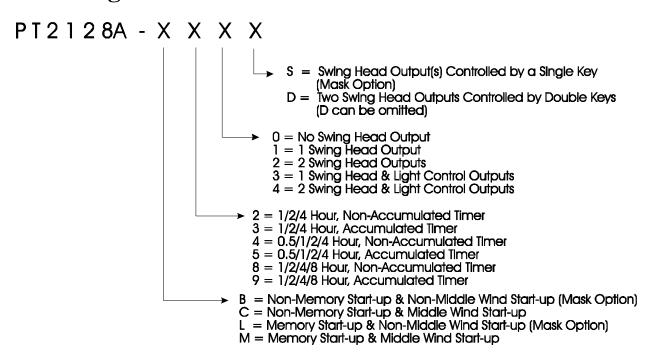
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### **Pin Configuration**



### **Ordering Information**



Note: PT2128A Standard ICs: PT2128A-C31, PT2128A-C51, PT2128A-C80, PT2128A-C81, PT2128A-C82, PT2128A-C83, PT2128A-C92. Other options are available upon request and require a minimum order quantity. Please contact PTC or your local agent for details.

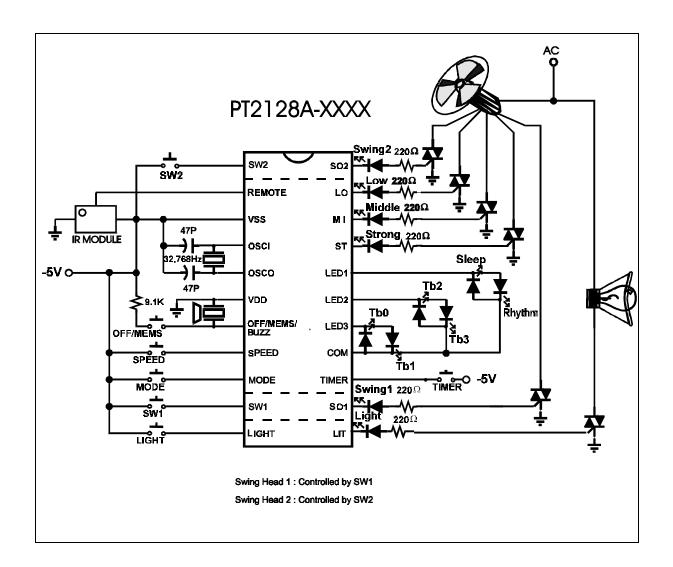


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## **Application Circuits**

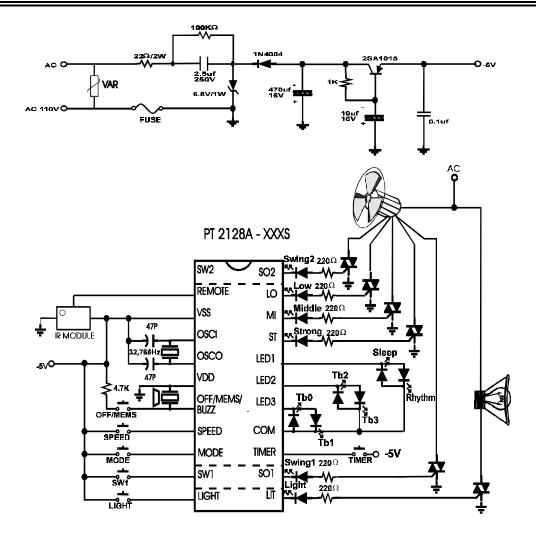


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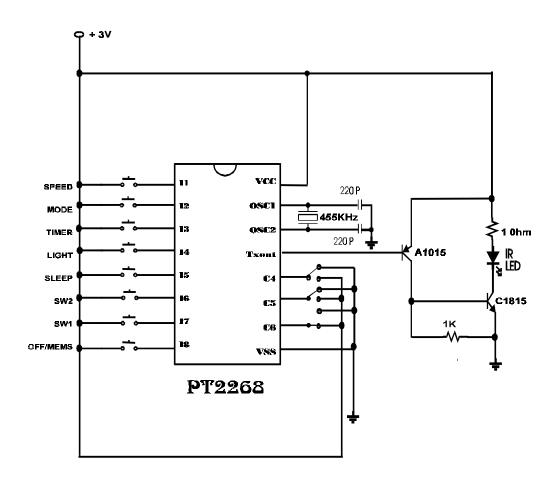
Two Swing Head: Controlled by SW1

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## **PT2268 IR Transmitter Application Circuit**



PT2268 is recommended to be used with PT2128A For this circuit, the "Start Word" is "00110011"