

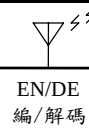


145026 COMPATIBLE
3 STATE 19,683 CODES

3 态 19,683 码

EN/DECODER

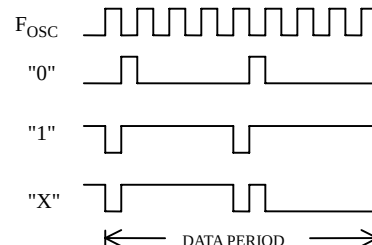
M45026/7/8



FEATURES 功能叙述

- 3^9 difference codes.
- Minimum 2 transmission words.
- Totally pin compatible with 145026.
- S.O.Package — suffix-S.

BIT FORMAT



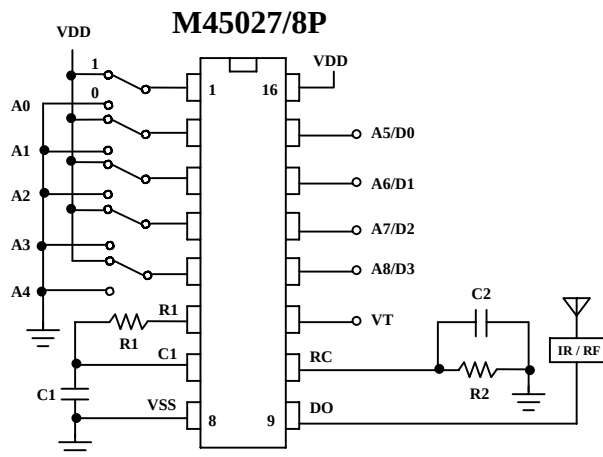
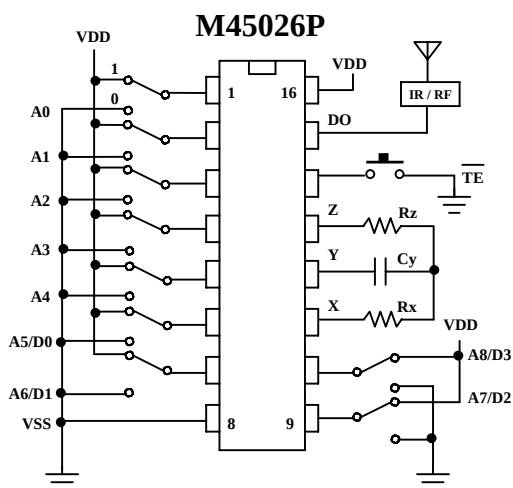
APPLICATION 产品应用

- Security alarm, Remote control. 防盗系统, 任何遥控装置.

ELECTRICAL CHARACTERISTICS 电气规格

Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作电压 Operating Voltage	V_{DD}	3	—	15	V	
工作电流 Operating Current	I_{OP}	—	2	3	mA	No load , Fosc=22KHz
静态电流 Quiescent Current	I_{SB}	—	0.1	1	μA	Oscillator stop
推动电流 Driving Current	I_{OL}	—	2	—	mA	@ $V_{DS}=1.2V$
振荡频率 Oscillator Frequency	F_{OSC}	—	22	—	KHz	External $\pm 30\%$
工作温度 Operating Temperature	Temp.	-20	25	70	$^{\circ}C$	

APPLICATION DIAGRAM 参考电路图



* @ $V_{DD}=12V$ ~ M45026: $R_x=20K \Omega$, $R_z=10K \Omega$, $C_y=2020pF$;

M45027/8: $R_1=10K \Omega$, $C_1=8200pF$, $R_2=100K \Omega$, $C_2=0.015 \mu F$.

* All specs and applications shown above subject to change without prior notice.

(以上电路及规格仅供参考,本公司得径行修正)



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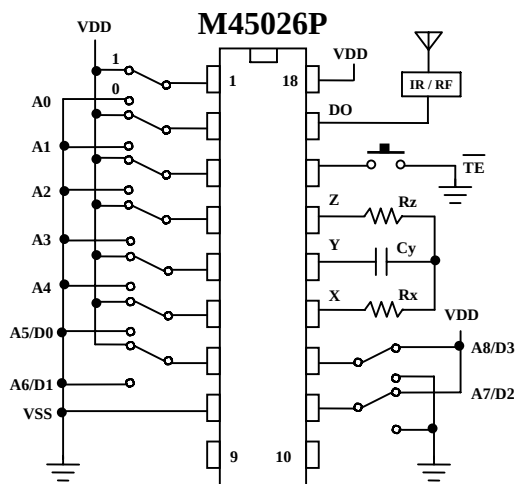
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EN/DE
編/解碼



$$F_{OSC} = \frac{1}{2.3 R_Z C_y'}$$

$$R_1 C_1 = 3.95 R_Z C_y$$

$$R_2 C_2 = 77 R_Z C_y$$

$$C_y' = C_y + C_{layout} + 12 \text{ pF}$$

$$100 \text{ pF} \leq C_y \leq 15 \mu\text{F}$$

$$R_Z \geq 10\text{K}\Omega ; R_X \approx 2 R_Z$$

$$R_1 \geq 10\text{K}\Omega$$

$$C_1 \geq 400 \text{ pF}$$

$$R_2 \geq 100\text{K}\Omega$$

$$C_2 \geq 700 \text{ pF}$$

EXAMPLE R/C VALUES

($C_y' = C_y + 20 \text{ pF}$)

Fosc	Rz	Cy	Rx	R1	C1	R2	C2
362K	10K	120pF	20K	10K	470pF	100K	910pF
181K	10K	240pF	20K	10K	910pF	100K	1800pF
88.7K	10K	490pF	20K	10K	2000pF	100K	3900pF
42.6K	10K	1020pF	20K	10K	3900pF	100K	7500pF
21.5K	10K	2020pF	20K	10K	8200pF	100K	0.015uF
8.53K	10K	5100pF	20K	10K	0.02uF	200K	0.02uF

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