

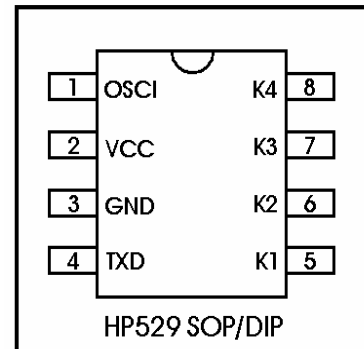
Description :

The HP529 is a Hopping code encoder for remote control systems utilizing CMOS technology process. The HP529 provides a nonlinear code algorithm to generate random code for anti-grabbing application. This mean that every time the encoder is used, it comes with a new random code.

Features :

CMOS Technology
 Low stand by Current : 1.0 uA
 Wide range of operating voltage :
 $V_{cc} = 1.8V \sim 13V$
 Up to 4 data pins
 Total 1048576 address codes
 Single resistor oscillator
 Anti-Grabing
 Hopping code

Pin Out :



Absolute Maximum Rating :

Symbol	Parameter	Conditions	Rating	Unit
V _{cc}	Supply Voltage		-0.3 ~ 14	V
V _I	Input Voltage		-0.3 ~ V _{cc} +0.3	V
V _O	Output Voltage		-0.3 ~ V _{cc} +0.3	V
T _{st}	Storage Temp.		-40 ~ 125	
T _{op}	Operating Temp.		-20 ~ 70	
P _{dis}	Max. Power Dis.	V _{cc} = 12V	300	mW

Electrical Characteristics :

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V _{cc}	Operating Voltage		1.8	-	13	V
I _{sb}	Stand by Current	V _{cc} = 12V, OSC stop K1 ~ K3 = Low Output unloaded			1.0	uA
I _{op}	Operating Current	V _{cc} = 12V		0.5	1	mA
I _{oh}	Source Current	V _{cc} = 12, V _{oh} = 6V	3			mA
I _{ol}	Sink Current	V _{cc} = 12, V _{ol} = 6V	3			mA
F _{op}	Operating Freq.			80K		Hz