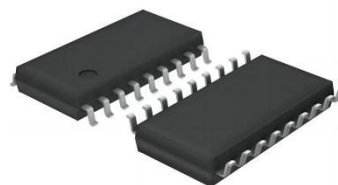


HX2803-S/HX2803-P

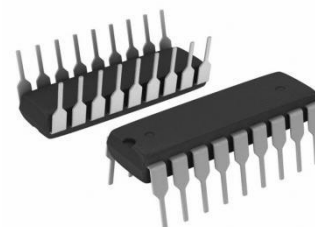
HX2803-S/HX2803-P are Badalington arrays with high voltage resistance and integrated output embedded protection diodes, which are used in relay array driving and other driving circuits.

Characteristic

- ESD capability: 4000V
- Each independently.
- The embedded protection diode has fast discharge and consistent performance across channels.
- The output driver supports 500mA with consistent performance across channels.
- Adopting SOP-18 or DIP-18 packaging.

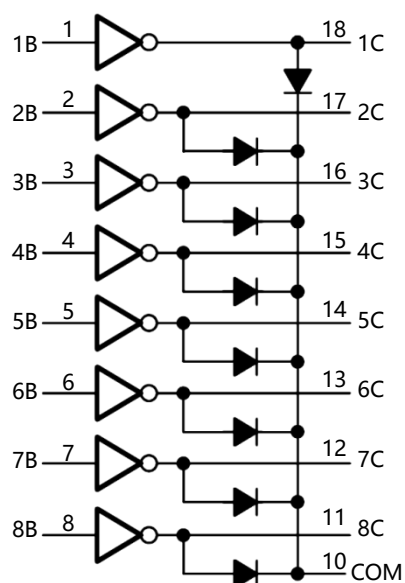


SOP-18

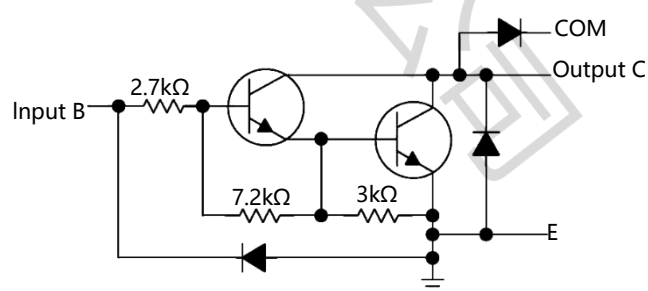


DIP-18

Layout diagram of lead out end and definition of pipe legs



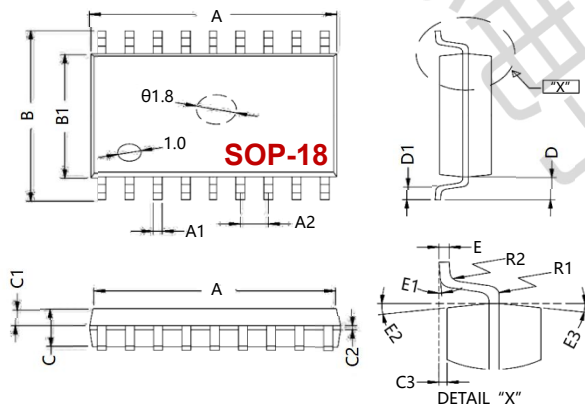
Unit Circuit Diagram



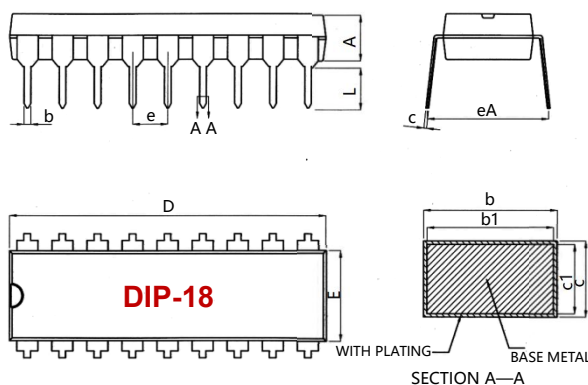
Electrical Parameter Table

Parameter	Parameter Symbols	Test Conditions	TA= +25°C			UNIT
			MIN	TYPICAL	MAX	
CT	OS	-100uA test OS GND	-1.0	-0.55	-0.3	V
ICO	ICEX	V _{CE} =50V; I _I =0			15	μA
ITOC	I _I (ON)	V _I =3.85V	0.6	0.9	1.2	mA
ITOV	V _I (ON)	V _{CE} =2V	I _C =200mA	0.6	1.0	V
			I _C =250mA	1.0	1.4	
			I _C =300mA	1.2	1.6	
CE saturation pressure drop	V _{CE} (SAT)	I _I =250uA	I _C =100mA	0.6	0.9	V
		I _I =350uA	I _C =200mA	0.7	1.0	
		I _I =500uA	I _C =350mA	0.9	1.3	
Embedded Diode RL	I _R	V _R =50V			15	μA
V _f (diode)	V _F	I _F =350mA	1.0	1.6	1.9	V

Package information



SYMBOL	SHOW	MIN	NOM	MAX
A	Total length	11.25	11.45	11.65
A1	Foot width		0.40TYP	
A2	Foot spacing		1.27 TYP	
B	span	10.10	10.30	10.50
B1	Colloidal width	7.30	7.50	7.70
C	Colloidal thickness	2.24	2.34	2.44
C1	Thick colloid on top		1.05TYP	
C2		0.20	0.26	0.33
C3	Station height	0.10	0.15	0.25
D	Unilateral length	1.30	1.40	1.50
D1	foot length	0.70	0.80	1.00
E	Foot thickness	0.20	0.25	0.30
E1	Foot angle	0°	4°	8°
E2			7°TYP	
E3			5°TYP	
R1				
R2				



Symbol	millimeter		
	Min	Nom	Max
A	3.20	3.30	3.40
b	0.44		0.53
b1	0.43	0.46	0.49
c	0.25		0.30
c1	0.24	0.25	0.26
D	22.80	22.90	23.00
E	6.40	6.50	6.60
e		2.54BSC	
eA	8.30	8.80	9.30
L	3.00		

Part Number	Package Type	Package	quantity
HX2803-S	SOP-18	Taping	1000
HX2803-P	DIP-18	Taping	500