

APPEARANCE



DFN1610-2L

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APES24H80-16 is a Uni-directional transient voltage suppressor (TVS) to protect sensitive electronic components from electrostatic discharge (ESD). It is particularly well-suited for cellular phones, PMP , MID, PDA, digital cameras and other electronic quipment. The APES24H80-16 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30KV$).

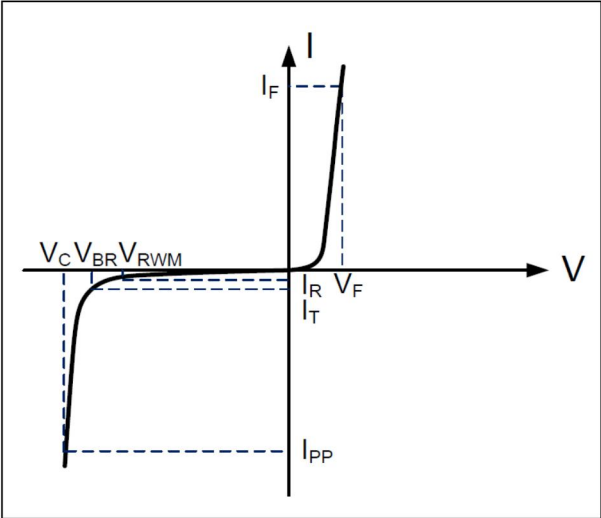
The APES24H80-16 is available in DFN1610 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APES24H80-16	DFN1610	3000/Tape&Reel

Electrical Parameters (T=25°C)

Symbol	Parameter
V_{RWM}	Reverse Stand-off Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Reverse Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
I_F	Forward Current
V_F	Forward Voltage @ I_F



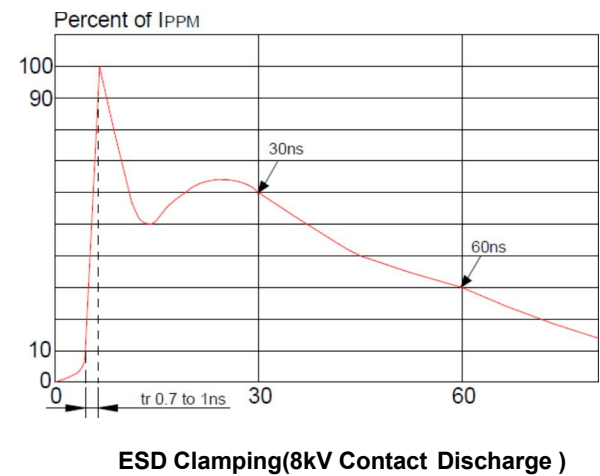
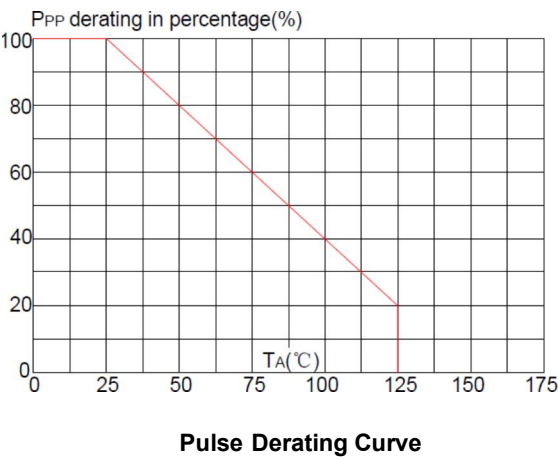
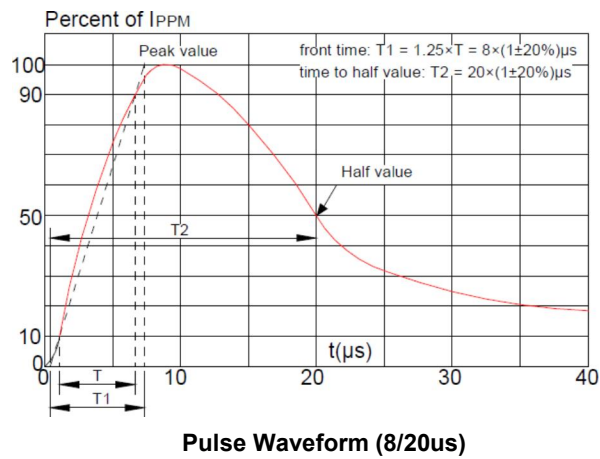
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	2800	W
Peak pulse current (tp = 8/20μs)	I _{PP}	80	A
ESD according to IEC61000-4-2 air discharge	V _{ESD}	±30	kV
ESD according to IEC61000-4-2 contact discharge		±30	kV
Junction temperature	T _J	150	°C
Operating temperature	T _{OP}	-55~125	°C
Storage temperature	T _{STG}	-55~150	°C

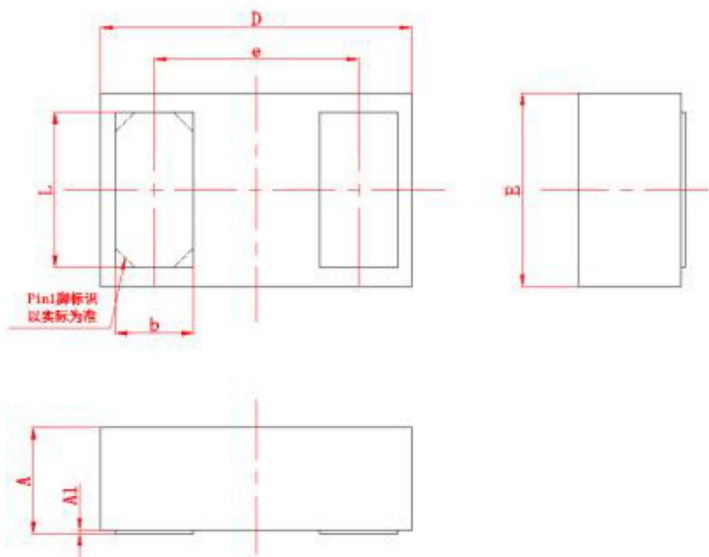
Electronics characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				24	V
Reverse Breakdown Voltage	VBR	I _t =1mA	26	28	33	V
Reverse Leakage Current	I _R	VRWM=24V			0.2	uA
Clamping Voltage	V _C	I _{pp} =80A, tp=8/20us			50	V
Junction Capacitance	C _j	VR=0V, f=1MHz		260		pF

Typical characteristics (Ta=25°C)

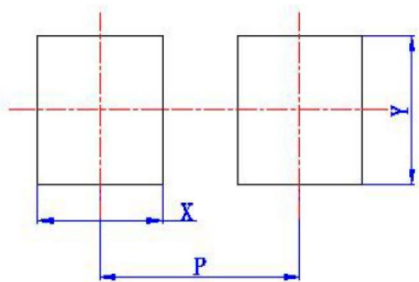


PACKAGE OUTLINE DIMENSIONS(DFN1610-2L)



Symbol	Dimension in Millimeters	
	min	max
A	0.50	0.6
A1	0	0.05
D	1.5	1.7
E	0.9	1.1
e	(1.05)	
b	0.35	0.45
L	0.75	0.95

suggested Land pattern



Symbol	Dimension in Millimeters
	typ
X	(0.62)
Y	(1.0)
P	(1.2)

Note:
This recommended land pattern is for reference purpose only.