

APPEARANCE



PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APES5.0H24-32 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 APES5.0H24-32 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 (\pm 30KV).

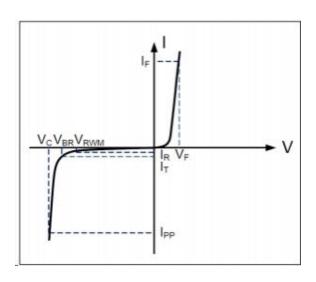
The APES5.0H24-32 is available in SOD-323 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APES5.0H24-32	SOD-323	3000/Tape&Reel

Electrical Parameters (T=25℃)

Symbol	Parameter	
VRWM	Reverse Stand-off Voltage	
lr	Reverse Leakage Current @ VRWM	
VBR	Reverse Breakdown Voltage @ IT	
lτ	Test Current	
IPP	Reverse Peak Pulse Current	
Vc	Clamping Voltage @ IPP	
lF	Forward Current	
VF	Forward Voltage @ IF	





Absolute maximum ratings

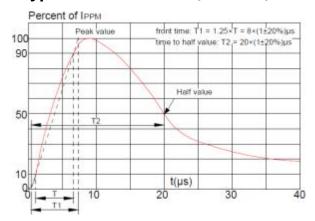
Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	360	W
Peak pulse current (tp = 8/20µs)	lpp	24	А
ESD according to IEC61000-4-2 air discharge	Vesd	±30	kV
ESD according to IEC61000-4-2 contact discharge	A E2D	±30	kV
Junction temperature	TJ	150	${\mathfrak C}$
Operating temperature	Тор	-55~125	${\mathfrak C}$
Storage temperature	Tstg	-55~150	${\mathfrak C}$

Electronics characteristics (Ta=25°C)

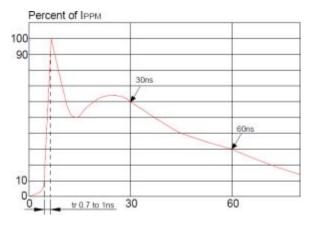
Parameter	Symbol	Condition	Min	Тур	Max	Units
Reverse Stand-off Voltage	VRWM				5.0	V
Reverse Breakdown Voltage	VBR	It=1mA	5.8	7.05	8.2	V
Reverse Leakage Current	IR	VRWM=5.0V			0.8	uA
Clamping Voltage	VC	Ipp=24A,tp=8/20us			15	V
Junction Capacitance	Cj	VR=0V,f=1MHz		165		pF



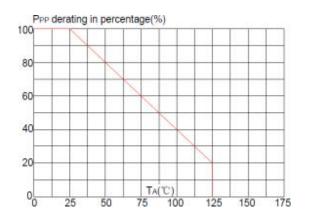
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)



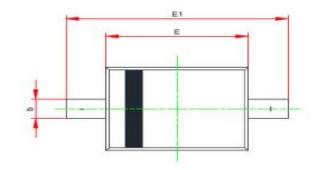
ESD Clamping(8kV Contact Discharge)

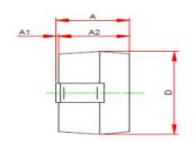


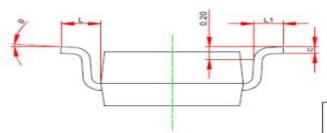
Pulse Derating Curve



PACKAGE OUTLINE DIMENSIONS(SOD-323)

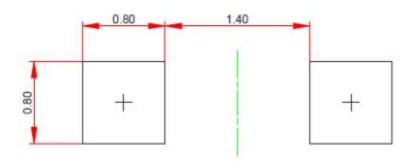






	Dimensions in millimeters			
Symbol	Min.	Тур.	Max.	
A	0.800	-	1.000	
A1	0.000		0.100	
A2	0.800	J 340	0.900	
b	0.250	120	0.350	
С	0.080	0.70	0.150	
D	1.200		1.400	
E	1.600	-	1.800	
E1	2.500	970	2.700	
L	0.475 REF			
L1	0.250		0.400	
A	0°	528	8°	

Recommend land pattern (Unit: mm)



Note:

This recommended land pattern is for reference purpose only.