

APPEARANCE



SOD-323

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APES12H15-32 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 equipment. The APES12H15-32 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30KV$).

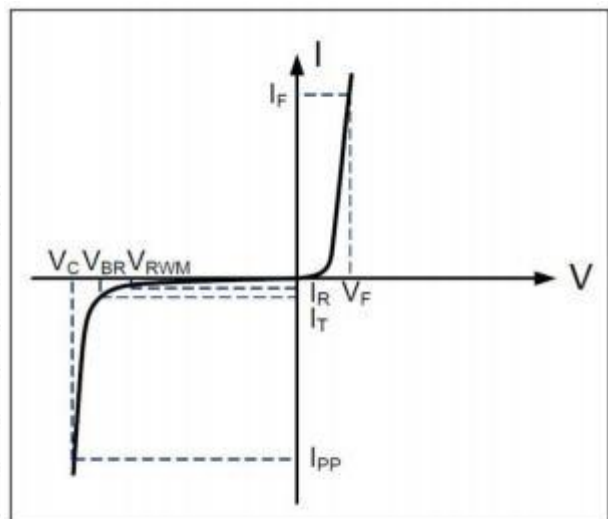
The APES12H15-32 is available in SOD-323 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APES12H15-32	SOD-323	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



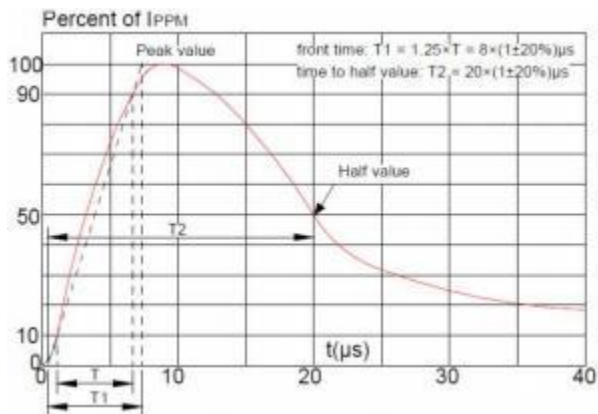
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	385	W
Peak pulse current (tp = 8/20μs)	IPP	15	A
ESD according to IEC61000-4-2 air discharge	VESD	±30	kV
ESD according to IEC61000-4-2 contact discharge		±30	kV
Junction temperature	TJ	150	°C
Operating temperature	TOP	-55~125	°C
Storage temperature	TSTG	-55~150	°C

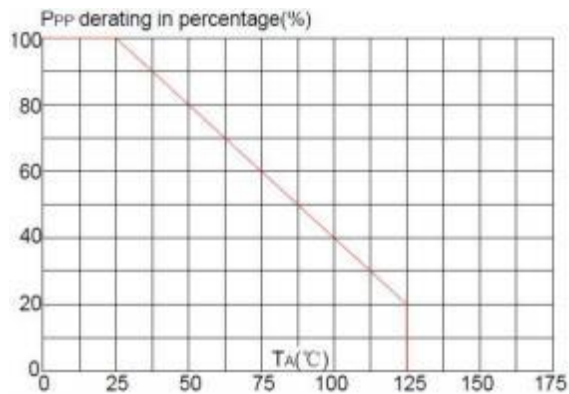
Electronics characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				12	V
Reverse Breakdown Voltage	VBR	It=1mA	13.5	14.2	15.5	V
Reverse Leakage Current	IR	VRWM=12V			0.1	uA
Clamping Voltage	VC	Ipp=15A, tp=8/20us			26	V
Junction Capacitance	Cj	VR=0V, f=1MHz		80		pF

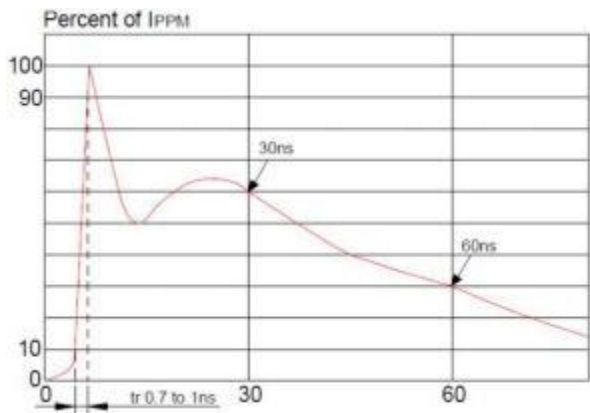
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)



Pulse Derating Curve



ESD Clamping(8kV Contact Discharge)