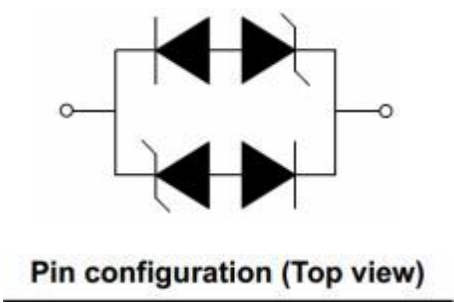


APPEARANCE



PIN CONFIGURATION



Descriptions

The APED12L10-32 is a Bi-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 APED12L10-32 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ( $\pm 30\text{KV}$ ).

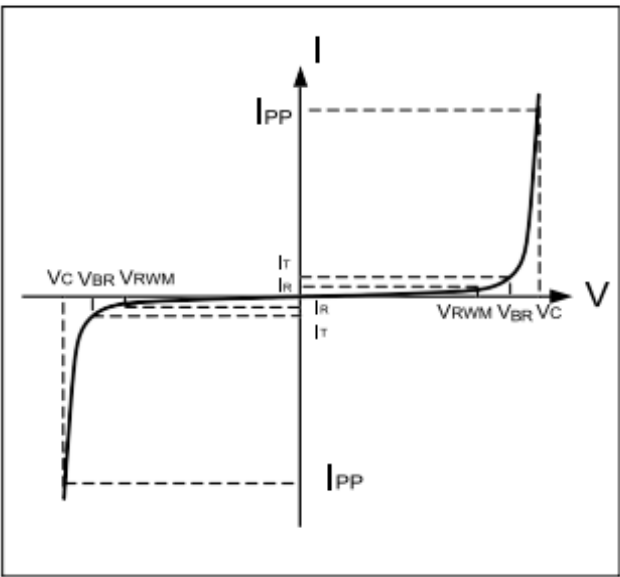
The APED12L10-32 is available in SOD-323 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED12L10-32	SOD-323	3000/Tape&Reel

Electrical Parameters (T=25℃ )

Symbol	Parameter
VRWM	Reverse Stand-off Voltage
IR	Reverse Leakage Current @ VRWM
VBR	Reverse Breakdown Voltage @ IT
IT	Test Current
IPP	Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP



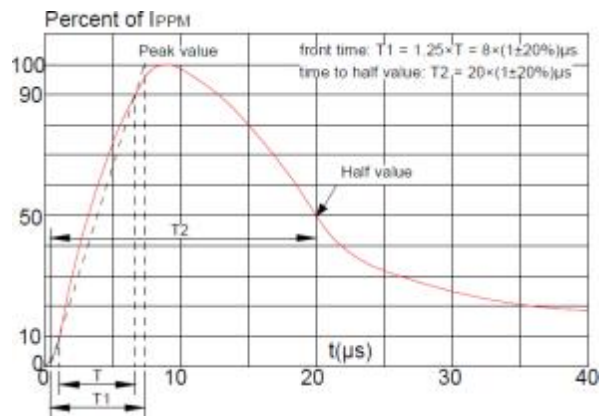
**Absolute maximum ratings**

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	260	W
Peak pulse current (tp = 8/20μs)	I <sub>PP</sub>	10	A
ESD according to IEC61000-4-2 air discharge	V <sub>ESD</sub>	±30	kV
ESD according to IEC61000-4-2 contact discharge		±30	kV
Junction temperature	T <sub>J</sub>	150	℃
Operating temperature	T <sub>OP</sub>	-55~125	℃
Storage temperature	T <sub>STG</sub>	-55~150	℃

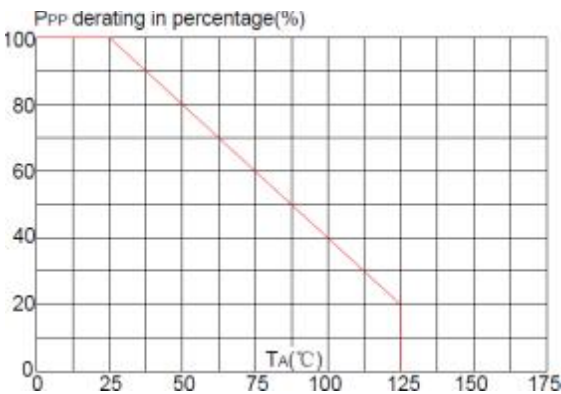
**Electronics characteristics (Ta=25℃)**

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				12	V
Reverse Breakdown Voltage	VBR	I <sub>t</sub> =1mA	13.5	14.8	16	V
Reverse Leakage Current	I <sub>R</sub>	VRWM=±12V			0.1	uA
Clamping Voltage	VC	I <sub>pp</sub> =10A, tp=8/20us			28	V
Junction Capacitance	C <sub>j</sub>	VR=0V, f=1MHz		0.8		pF

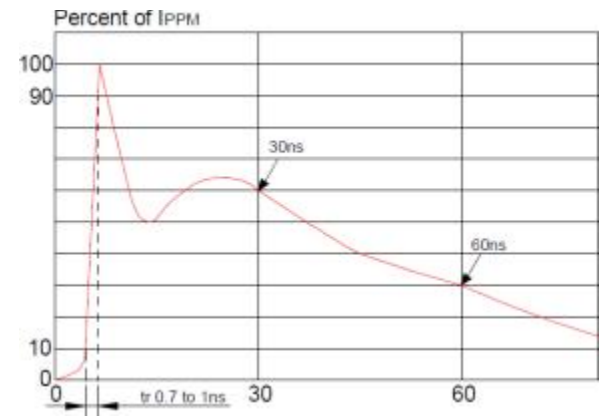
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)

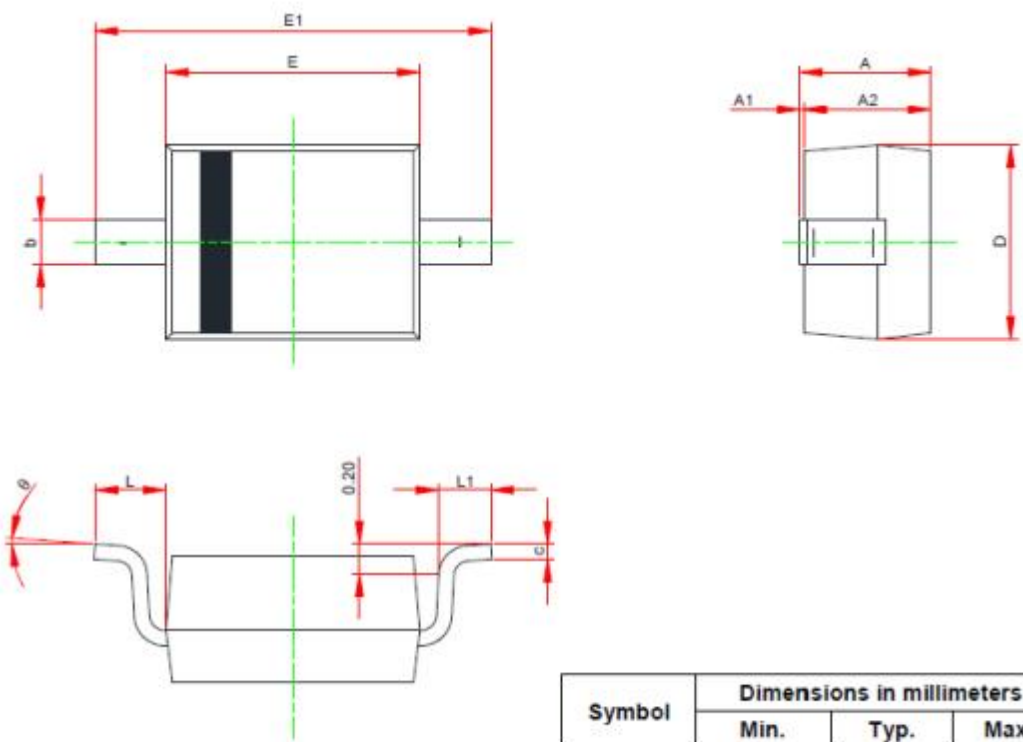


Pulse Derating Curve



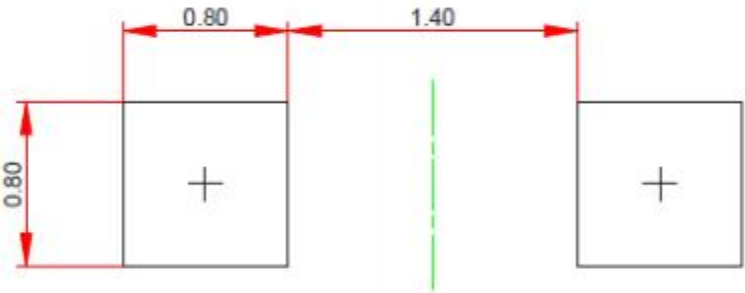
ESD Clamping(8kV Contact Discharge )

PACKAGE OUTLINE DIMENSIONS(SOD-323)



Symbol	Dimensions in millimeters		
	Min.	Typ.	Max.
A	0.800	-	1.000
A1	0.000	-	0.100
A2	0.800	-	0.900
b	0.250	-	0.350
c	0.080	-	0.150
D	1.200	-	1.400
E	1.600	-	1.800
E1	2.500	-	2.700
L	0.475 REF		
L1	0.250	-	0.400
θ	0°	-	8°

Recommend land pattern (Unit: mm)



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