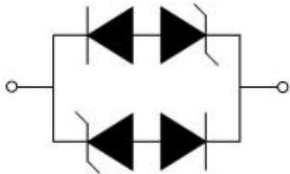


APPEARANCE



SOD-323

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED4.5H150-32 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 APED4.5H150-32 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30\text{KV}$).

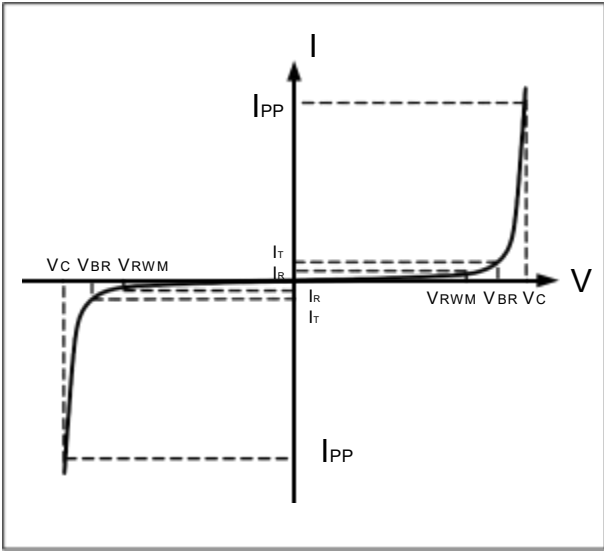
The APED4.5H150-32 is available in SOD-323 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED4.5H150-32	SOD-323	3000/Tape&Reel

Electrical Parameters (T =25°C)

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



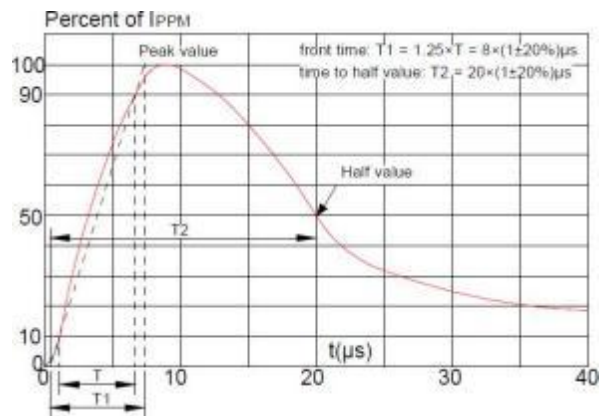
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	670	W
Peak pulse current (tp = 8/20μs)	I _{PP}	150	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	℃
Operating temperature	T _{OP}	-55~ 125	℃
Storage temperature	T _{STG}	-55~ 150	℃

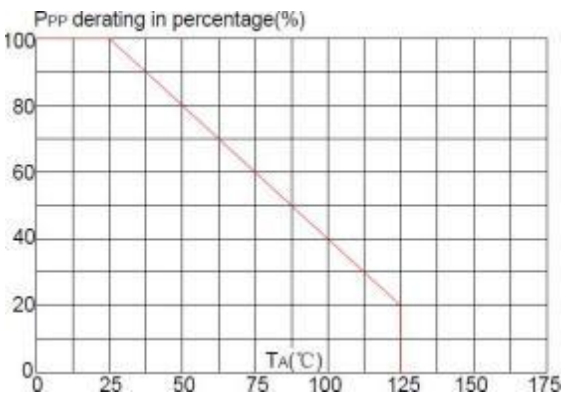
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				4.5	V
Reverse Breakdown Voltage	VBR	I _t = 1mA	4.7	5.3	5.9	V
Reverse Leakage Current	I _R	VRWM= ±4.5V			0.2	uA
Clamping Voltage	V _C	I _{pp} = 150A, tp=8/20us			15	V
Junction Capacitance	C _j	V _R =0V, f= 1MHz		280		pF

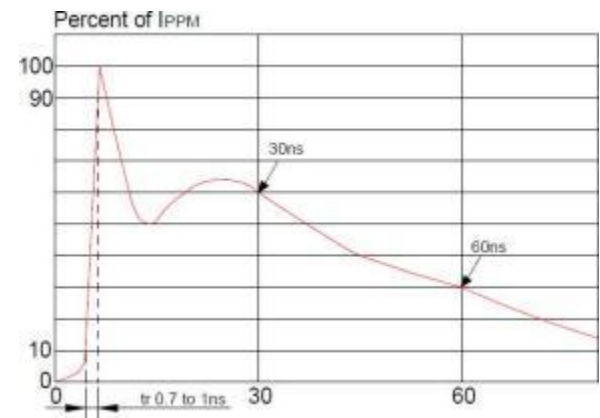
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)

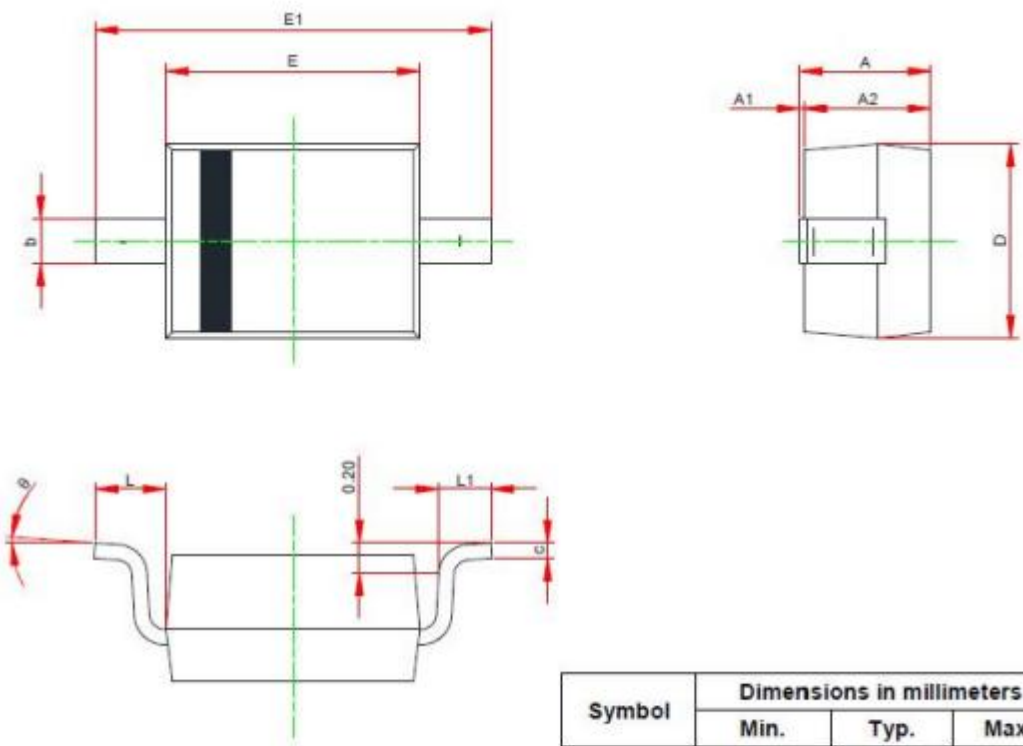


Pulse Derating Curve



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.