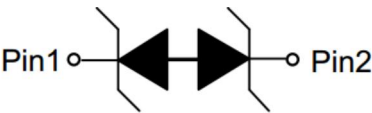


APPEARANCE



SOD-523 (Top View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED5.0L4.0-52 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 APED5.0L4.0-52 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 15KV$).

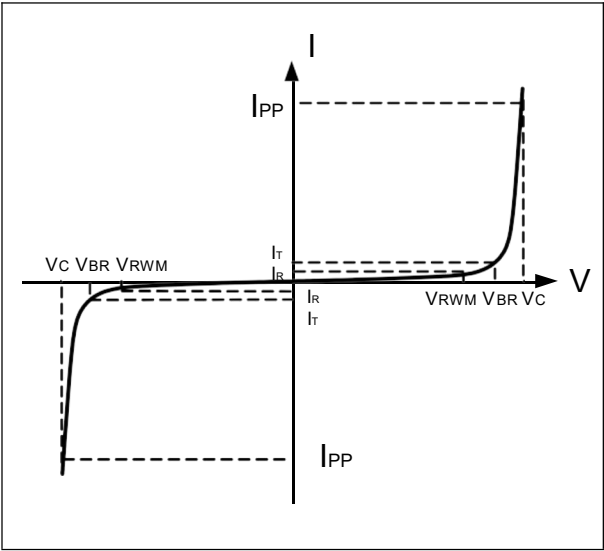
The APED5.0L4.0-52 is available in SOD-523 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED5.0L4.0-52	SOD-523	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



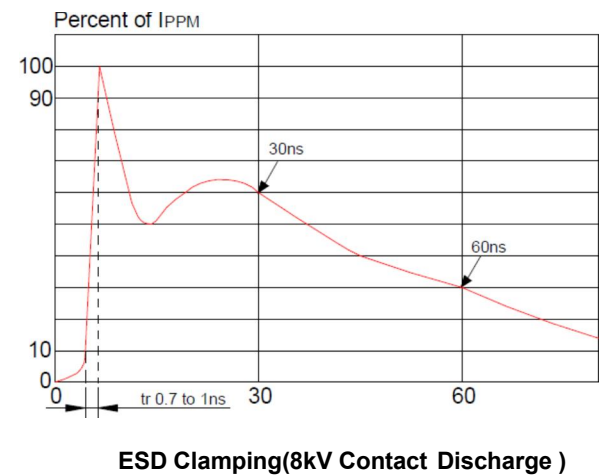
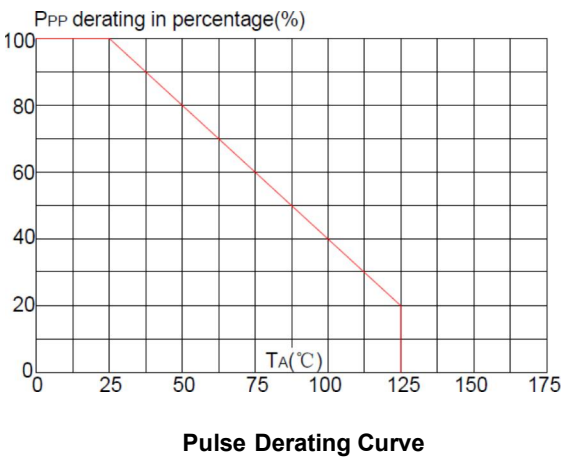
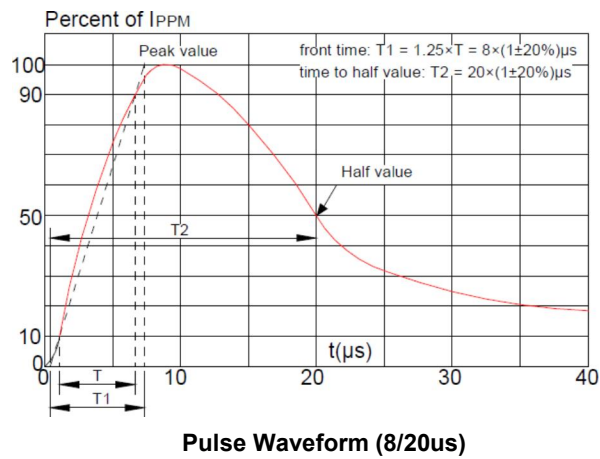
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	100	W
Peak pulse current (tp = 8/20μs)	I _{PP}	4.0	A
ESD according to IEC61000-4-2 air discharge	V _{ESD}	±15	kV
ESD according to IEC61000-4-2 contact discharge		±15	kV
Junction temperature	T _J	150	℃
Operating temperature	T _{OP}	-55~125	℃
Storage temperature	T _{STG}	-55~150	℃

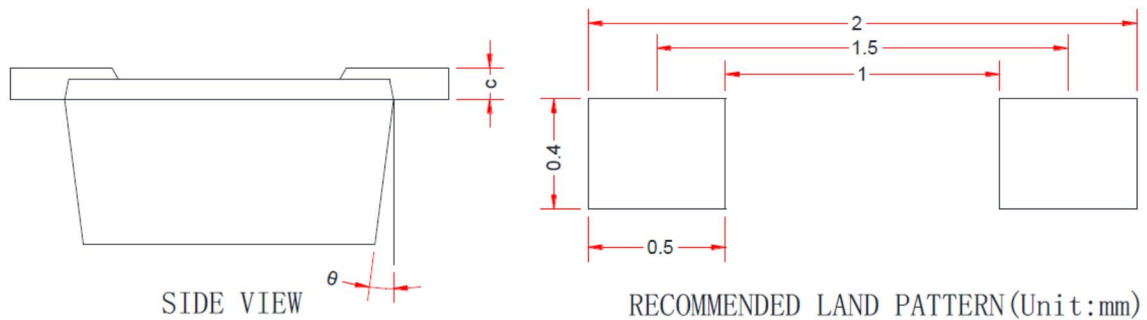
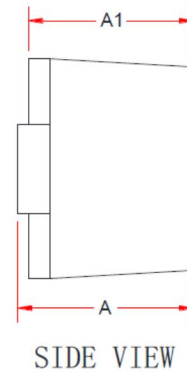
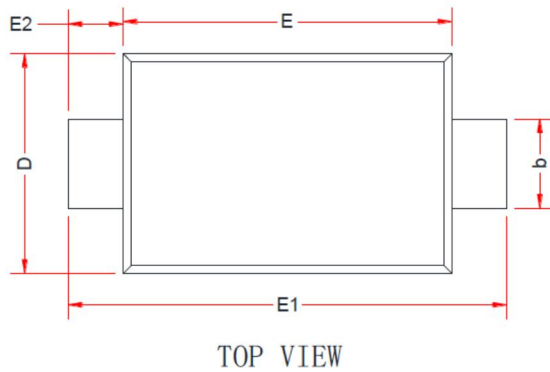
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				5.0	V
Reverse Breakdown Voltage	VBR	I _t =1mA	6.6	7.8	9.0	V
Reverse Leakage Current	I _R	VRWM=±5.0V			0.2	uA
Clamping Voltage	V _C	I _{pp} =4.0A, tp=8/20us			25	V
Junction Capacitance	C _j	VR=0V, f=1MHz		0.3		pF

Typical characteristics (Ta=25°C)



PACKAGE OUTLINE DIMENSIONS(SOD-523)



Symbol	Dimensions in Millimeters		
	Min.	Typ.	Max.
A	0.51	-	0.77
A1	0.50	0.60	0.70
b	0.25	-	0.40
c	0.08	-	0.15
D	0.75	0.80	0.85
E	1.10	1.20	1.30
E1	1.50	1.60	1.70
E2	0.20 Ref.		
θ	7 °C Ref.		

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