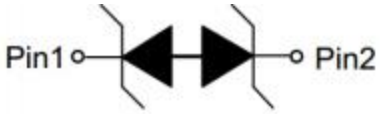
APPEARANCE

SOD-323

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED3.3H20-32 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 APED3.3H20-32 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 (±30KV).

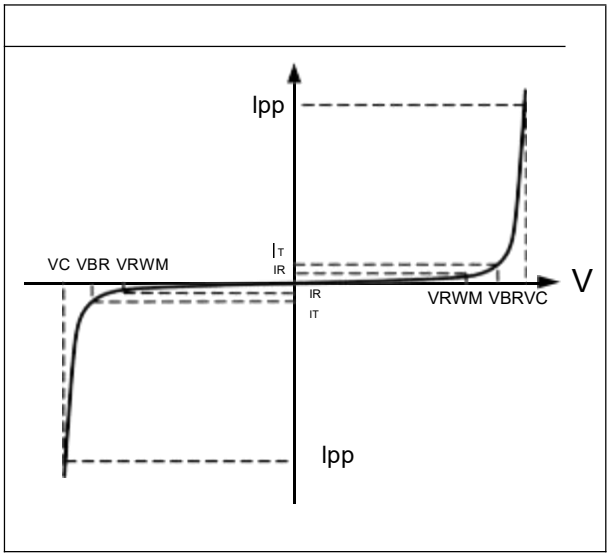
The APED3.3H20-32 is available in SOD-323 package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED3.3H20-32	SOD-323	3000/Tape&Reel

Electrical Parameters (T=25℃)

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
IPP	Reverse Peak Pulse Current
V_C	Clamping Voltage @ IPP



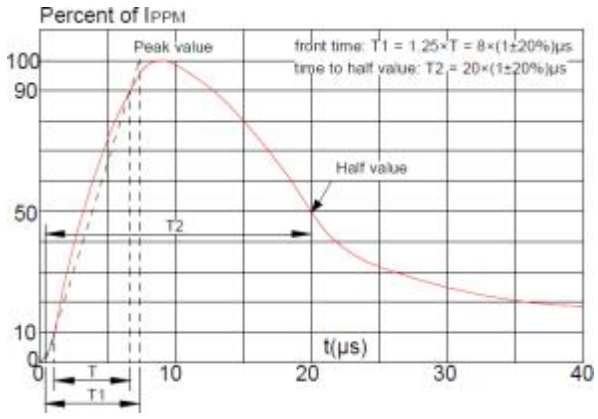
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	300	W
Peak pulse current (tp = 8/20μs)	I_{PP}	20	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	℃

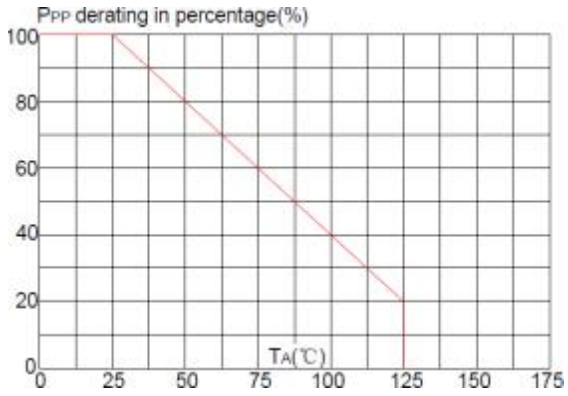
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				3.3	V
Reverse Breakdown Voltage	VBR	It=1mA	3.5	4.1	5.0	V
Reverse Leakage Current	IR	VRWM=±3.3V			0.2	uA
Clamping Voltage	VC	Ipp=20A,tp=8/20us			12	V
Junction Capacitance	Cj	VR=0V,f=1MHz		66		pF

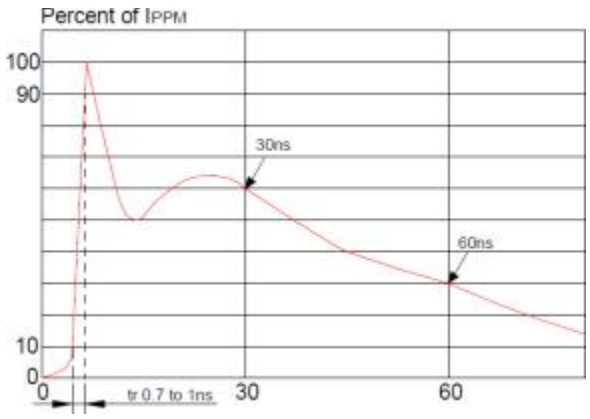
Typical characteristics (Ta=25℃)



Pulse Waveform (8/20us)

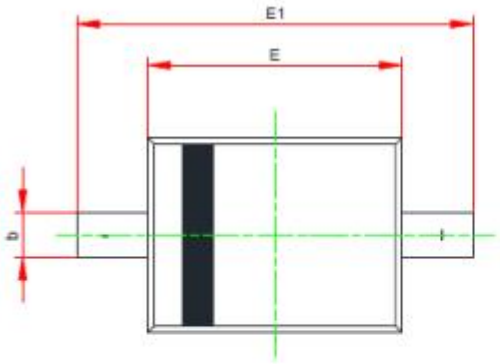


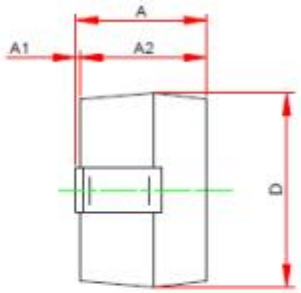
Pulse Derating Curve

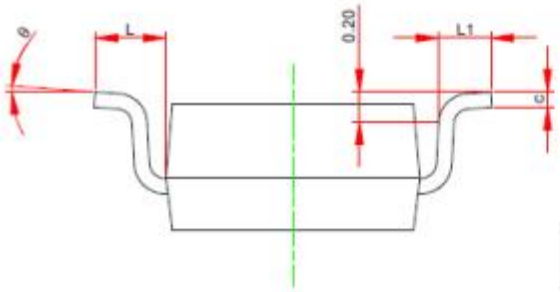


ESD Clamping(8kV Contact Discharge)

PACKAGE OUTLINE DIMENSIONS(SOD-323)

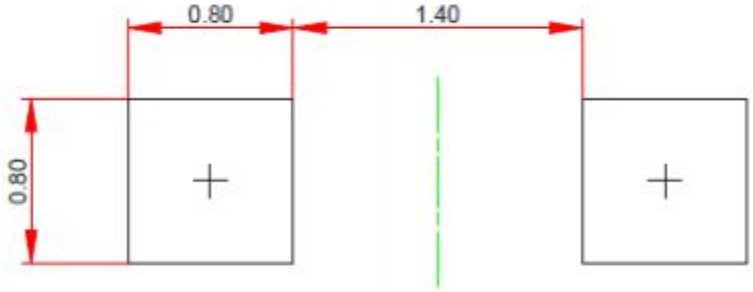






Symbol	Dimensions in millimeters		
	Min.	Typ.	Max.
A	0.800	-	1.000
A1	0.000	-	0.100
A2	0.800	-	0.900
b	0.250	-	0.350
c	0.080	-	0.150
D	1.200	-	1.400
E	1.600	-	1.800
E1	2.500	-	2.700
L	0.475 REF		
L1	0.250	-	0.400
θ	0°	-	8°

Recommend land pattern (Unit: mm)



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