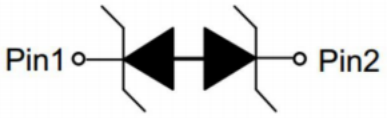
APPEARANCE

DFN0603-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED3.3L4.0-06 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 APED3.3L4.0-06 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 (±15KV).

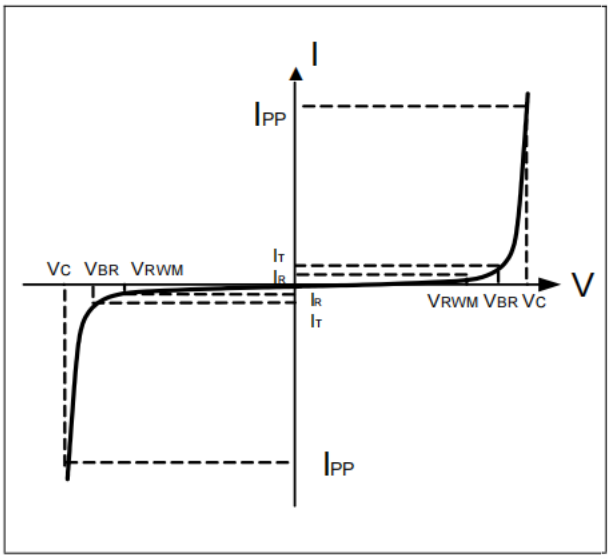
The APED3.3L4.0-06 is available in DFN0603-2L package. Standard products are Pb -free and Halogen-free.

Order information

Device	Package	Shipping
APED3.3L4.0-06	DFN0603-2L	10000/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
I_{PP}	Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}



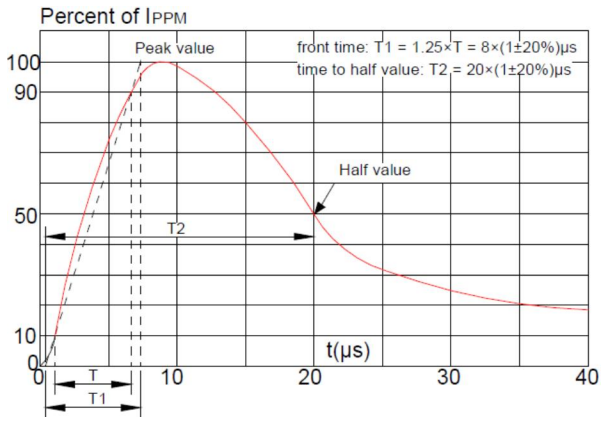
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	88	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	℃

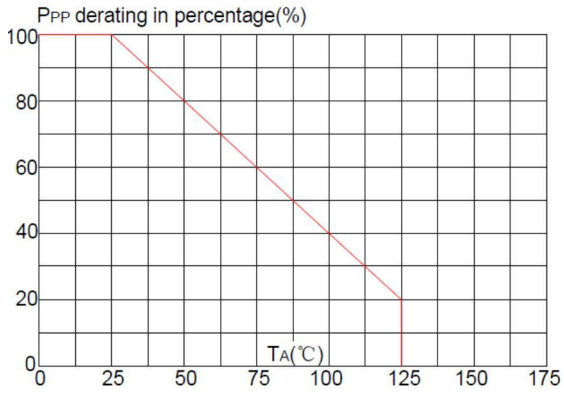
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				3.3	V
Reverse Breakdown Voltage	VBR	It=1mA	5.8	7.5	9.0	V
Reverse Leakage Current	IR	VRWM=±3.3V			0.1	uA
Clamping Voltage	VC	Ipp=4.0A,tp=8/20us			24	V
Junction Capacitance	Cj	VR=0V,f=1MHz		0.25		pF

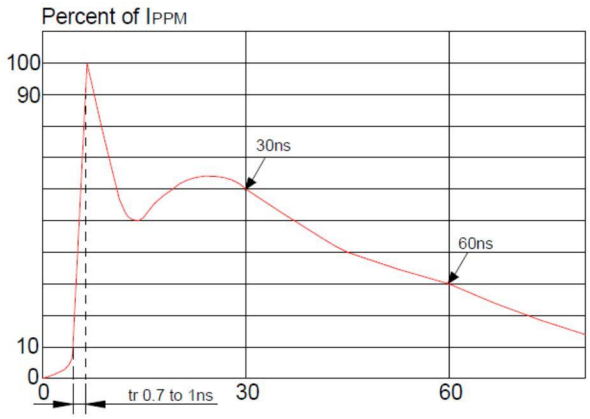
Typical characteristics (Ta=25℃)



Pulse Waveform (8/20us)

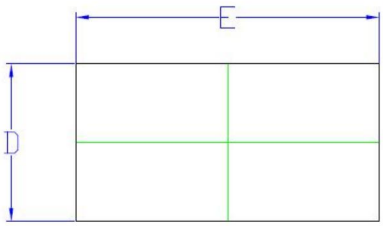


Pulse Derating Curve

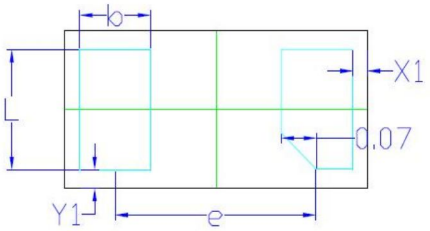


ESD Clamping(8kV Contact Discharge)

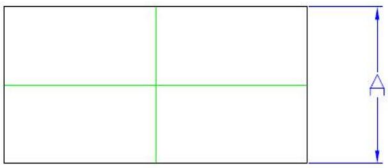
PACKAGE OUTLINE DIMENSIONS(DFN0603-2L)



TOP VIEW



BOTTOM VIEW



SIDE VIEW

Dimensions			Unit mm
Type	Min	Nom	Max
A	0.280	0.300	0.320
b	0.165	0.190	0.215
D	0.250	0.300	0.350
E	0.550	0.600	0.650
e		0.380	
L	0.210	0.230	0.250
X1	0.02	---	0.05
Y1	0.02	---	0.05

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