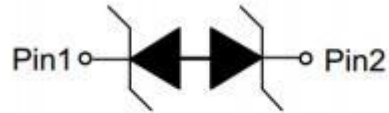


**APPEARANCE**



DFN0603-2L (Bottom View)

**PIN CONFIGURATION**



Pin configuration (Top view)

**Descriptions**

The APED3.3M6.0-06 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 equipment. The APED3.3M6.0-06 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ( $\pm 30KV$ ).

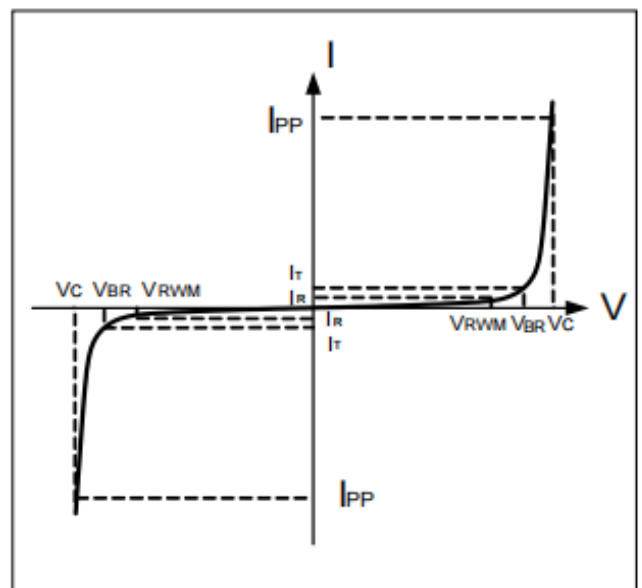
The APED3.3M6.0-06 is available in DFN0603-2L package. Standard products are Pb-free and Halogen-free.

**Order information**

Device	Package	Shipping
APED3.3M6.0-06	DFN0603-2L	10000/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



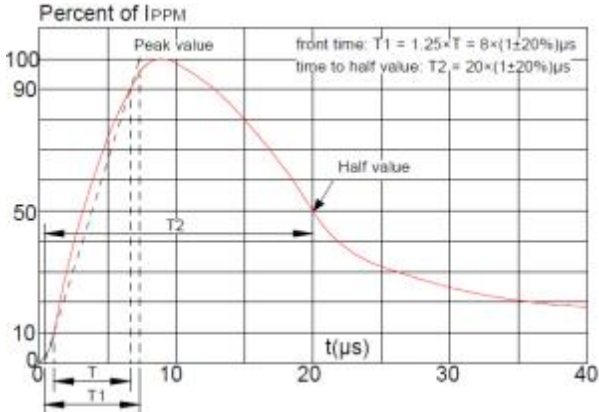
**Absolute maximum ratings**

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	80	W
Peak pulse current (tp = 8/20μs)	I <sub>PP</sub>	8	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	℃

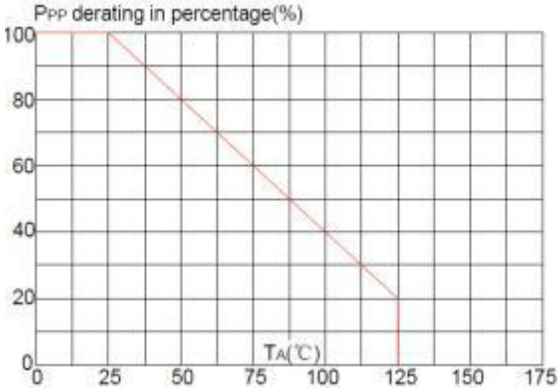
**Electronics characteristics (Ta=25℃)**

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	V <sub>RWM</sub>				3.3	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>t</sub> =1mA	3.8	4.2	5.0	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =±3.3V			0.1	uA
Clamping Voltage	V <sub>C</sub>	I <sub>pp</sub> =8A, tp=8/20us			10	V
Junction Capacitance	C <sub>j</sub>	V <sub>R</sub> =0V, f=1MHz		18		pF

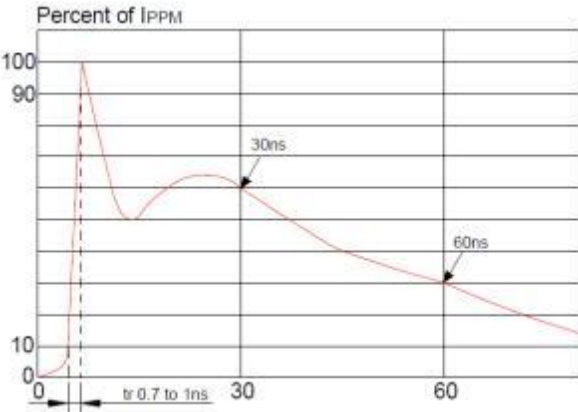
**Typical characteristics (Ta=25°C)**



**Pulse Waveform (8/20us)**

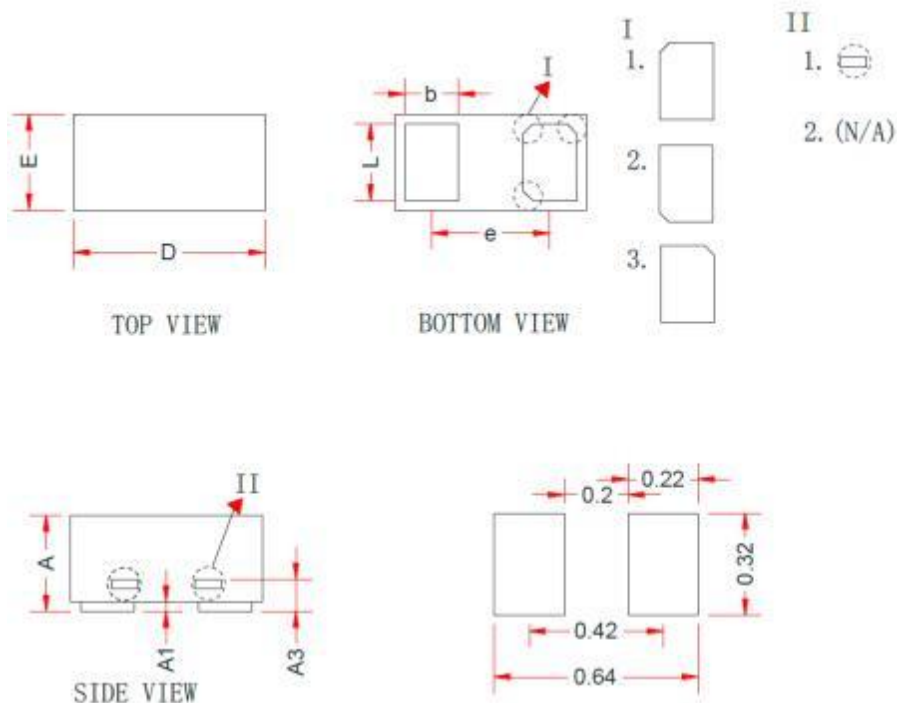


**Pulse Derating Curve**



**ESD Clamping(8kV Contact Discharge )**

**PACKAGE OUTLINE DIMENSIONS(DFN0603-2L)**



**Recommend Land Pattern (Unit: mm)**

Symbol	Dimensions in Millimeters		
	Min.	Typ.	Max.
A	0.23	0.30	0.34
A1	0.00	0.03	0.05
A3	0.10 Ref.		
D	0.55	0.60	0.67
E	0.25	0.30	0.37
b	0.10	0.15	0.22
L	0.20	0.24	0.30
e	0.40 Ref		

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