

APPEARANCE



DFN0603-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED7.0M7.0-06 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 APED7.0M7.0-06 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30\text{KV}$).

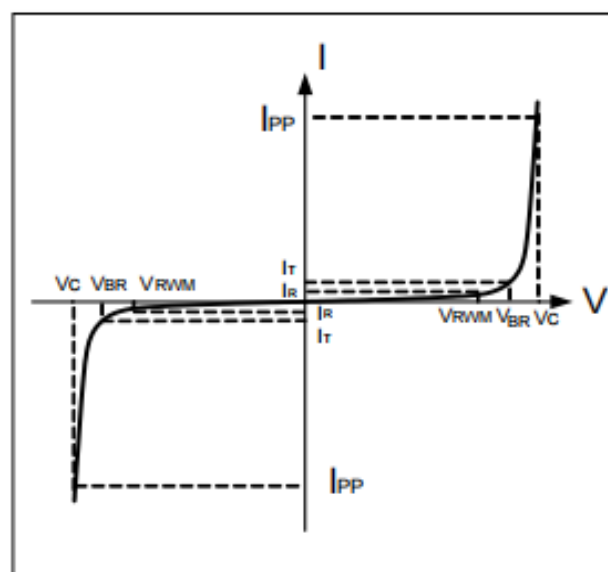
The APED7.0M7.0-06 is available in DFN0603-2L package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED7.0M7.0-06	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



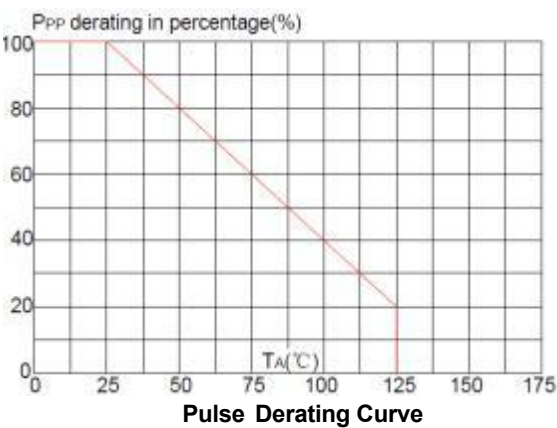
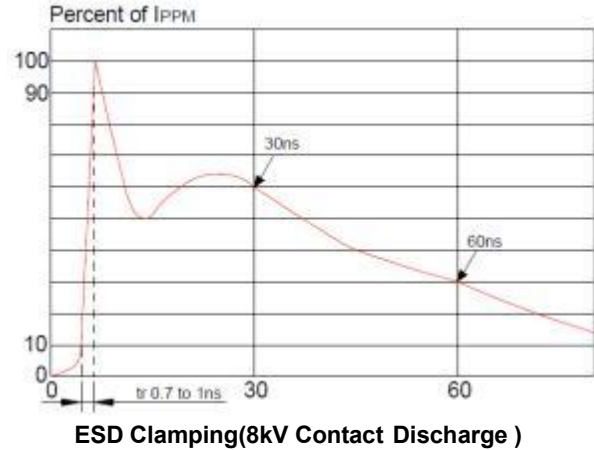
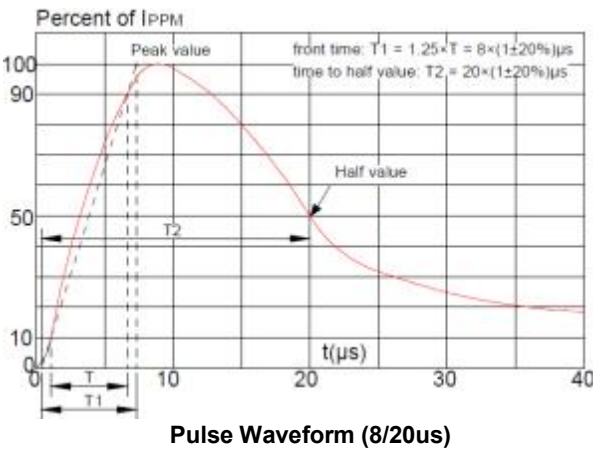
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power ($t_p = 8/20\mu s$)	Ppk	7.0	W
Peak pulse current ($t_p = 8/20\mu s$)	I _{PP}	7.0	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	℃

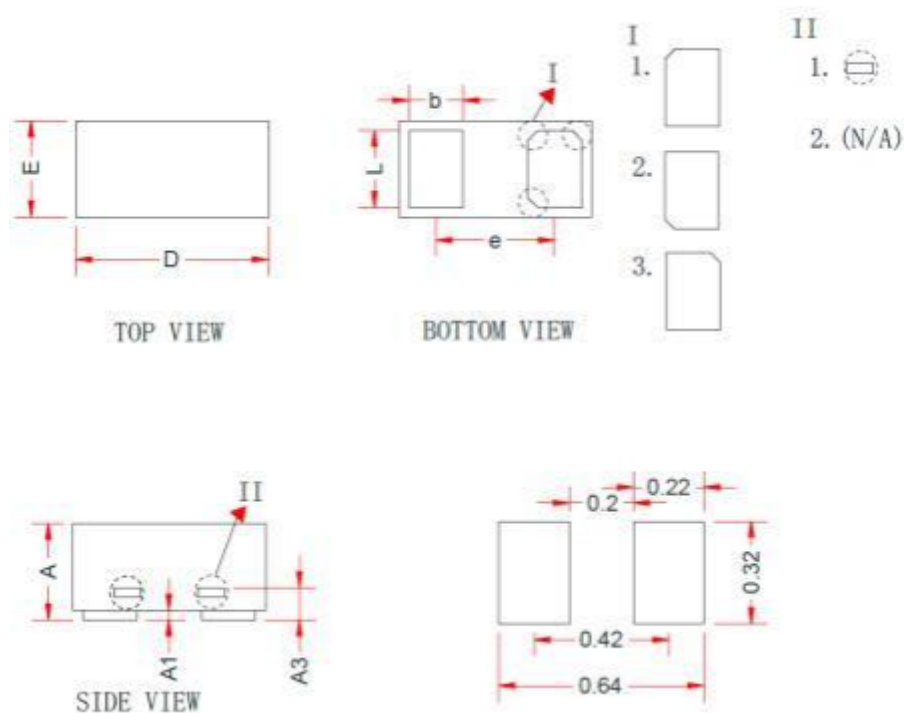
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				7.0	V
Reverse Breakdown Voltage	VBR	I _t =1mA	7.6	8.2	9.0	V
Reverse Leakage Current	I _R	VRWM=±7.0V			0.2	μA
Clamping Voltage	V _C	I _{pp} =7.0A, $t_p=8/20\mu s$			12	V
Junction Capacitance	C _j	V _R =0V, f=1MHz		17		pF

Typical characteristics (Ta=25°C)



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.