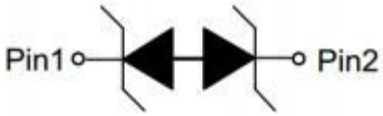
APPEARANCE

DFN1006-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED7.0M7.0-10 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 APED7.0M7.0-10 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 (±30KV).

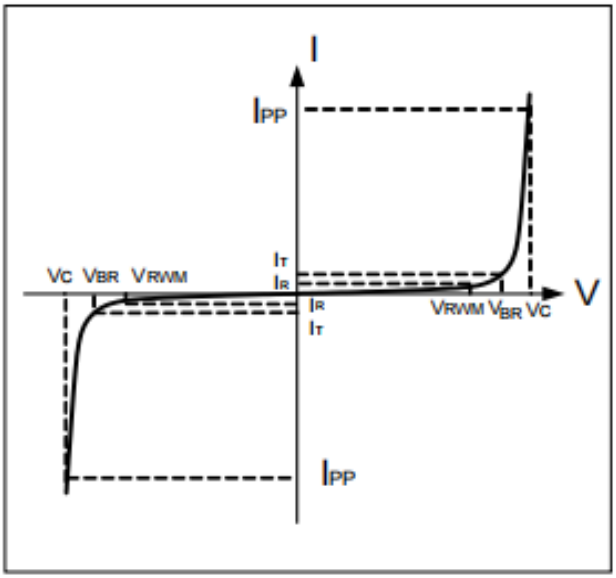
The APED7.0M7.0-10 is available in DFN1006-2L package. Standard products are Pb -free and Halogen-free.

Order information

Device	Package	Shipping
APED7.0M7.0-10	DFN1006-2L	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
IPP	Reverse Peak Pulse Current
V_C	Clamping Voltage @ IPP



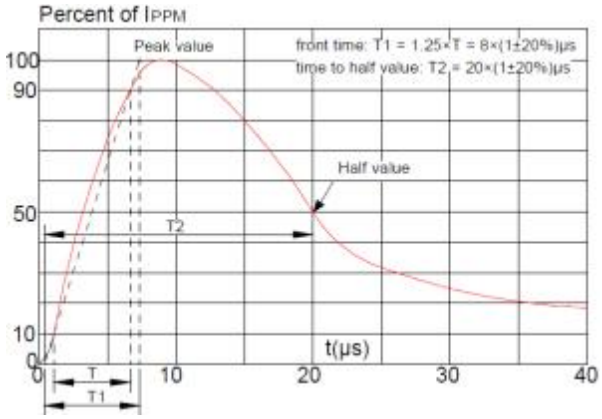
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	70	W
Peak pulse current (tp = 8/20μs)	IPP	7.0	A
ESD according to IEC61000-4-2 air discharge	VESD	±30	kV
ESD according to IEC61000-4-2 contact discharge		±30	kV
Junction temperature	TJ	150	℃
Operating temperature	TOP	-55~125	℃
Storage temperature	TSTG	-55~150	℃

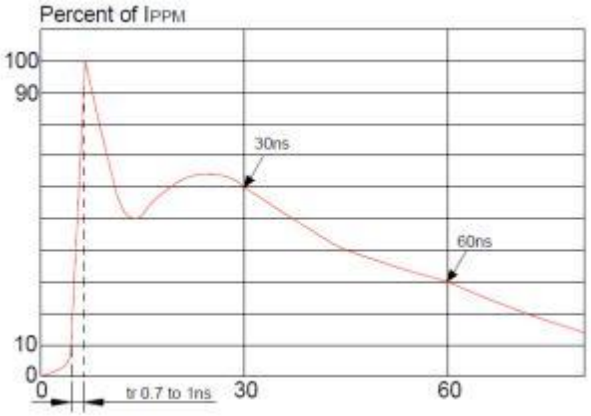
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				7.0	V
Reverse Breakdown Voltage	VBR	It=1mA	7.6	8.2	9.0	V
Reverse Leakage Current	IR	VRWM=±7.0V			0.2	uA
Clamping Voltage	VC	Ipp=7.0A,tp=8/20us			12	V
Junction Capacitance	Cj	VR=0V,f=1MHz		17		pF

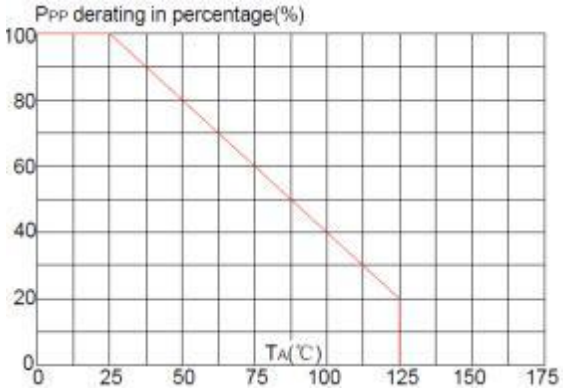
Typical characteristics (Ta=25℃)



Pulse Waveform (8/20us)

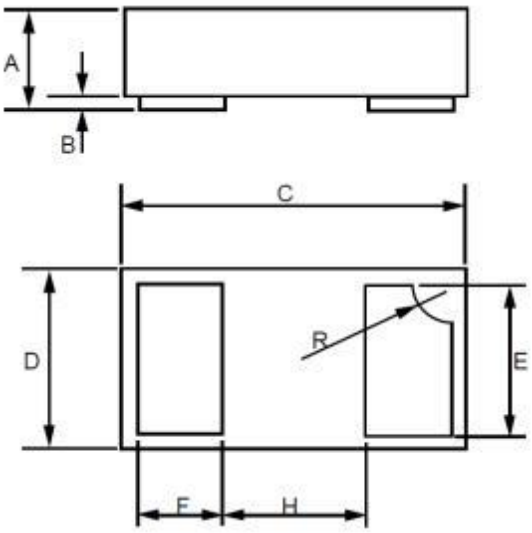


ESD Clamping(8kV Contact Discharge)



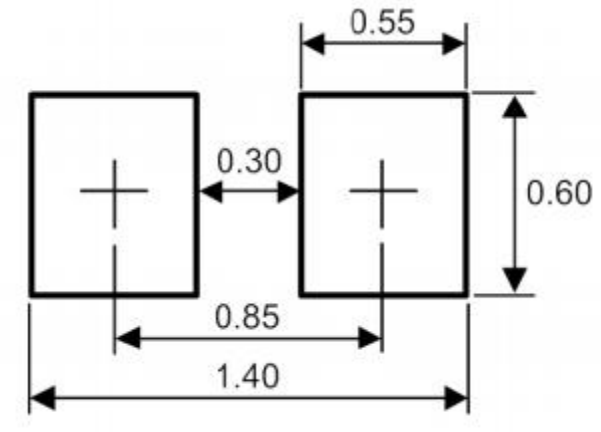
Pulse Derating Curve

PACKAGE OUTLINE DIMENSIONS(DFN1006-2L)



Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.018	0.020	0.46	0.51
B	0.000	0.002	0	0.05
C	0.037	0.041	0.95	1.05
D	0.022	0.025	0.55	0.65
E	0.017	0.021	0.45	0.55
F	0.008	0.012	0.20	0.30
H	0.015Typ.		0.40Typ	
R	0.001	0.005	0.05	0.15

Recommend Land Pattern (Unit: mm)



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