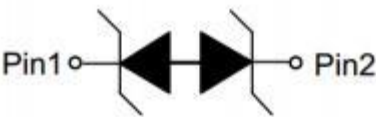


APPEARANCE



DFN1006-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED12M4.0-10 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 APED12M4.0-10 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30\text{KV}$).

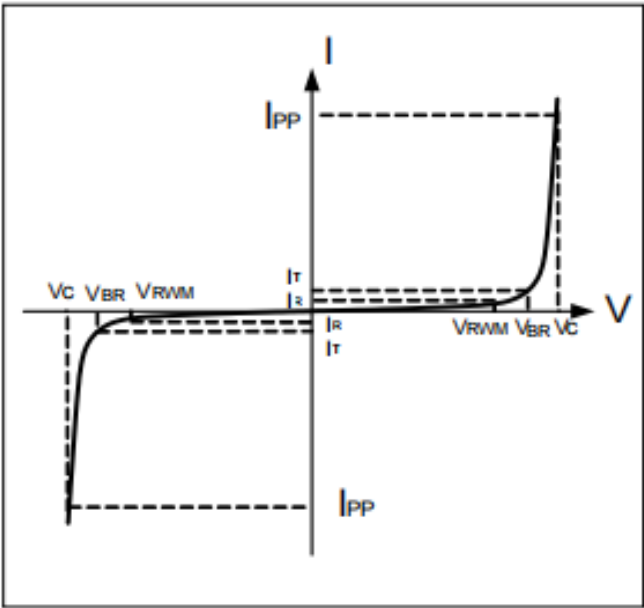
The APED12M4.0-10 is available in DFN1006-2L package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED12M4.0-10	DFN1006-2L	10000/Tape&Reel

Electrical Parameters (T=25℃)

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



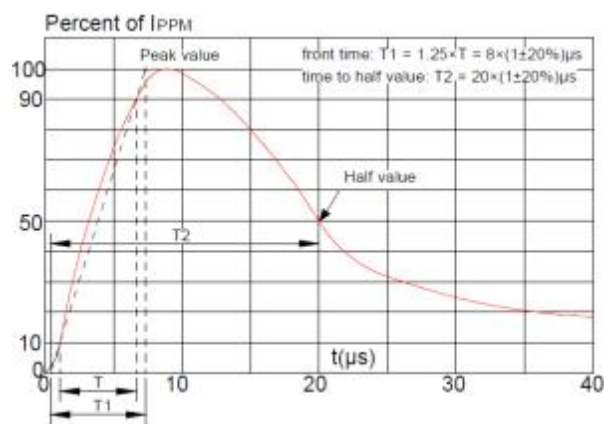
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power ($t_p = 8/20\mu s$)	Ppk	100	W
Peak pulse current ($t_p = 8/20\mu s$)	I _{PP}	4.0	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	℃

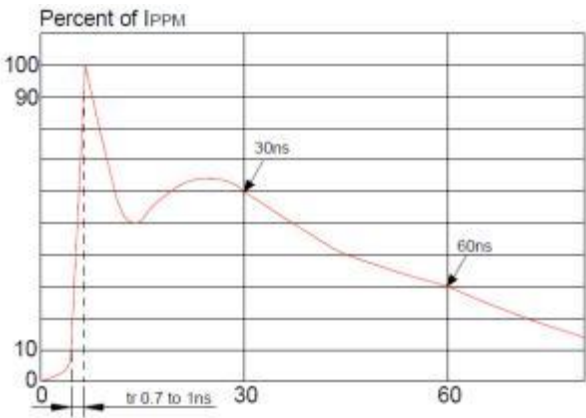
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				12	V
Reverse Breakdown Voltage	VBR	I _t =1mA	13		16.5	V
Reverse Leakage Current	I _R	VRWM=±12.0V			0.1	uA
Clamping Voltage	V _C	I _{pp} =4.0A, $t_p=8/20\mu s$			26	V
Junction Capacitance	C _j	VR=0V, f=1MHz			15	pF

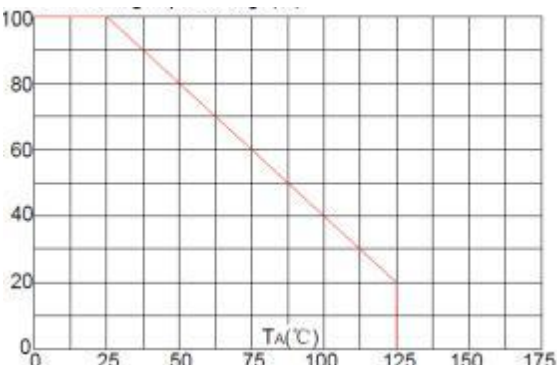
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20 μs)

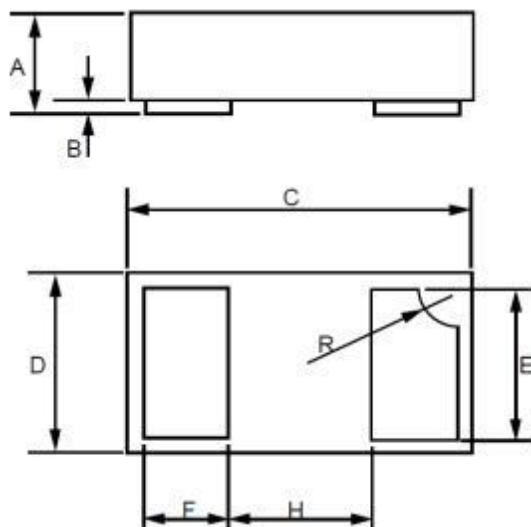


ESD Clamping(8kV Contact Discharge)



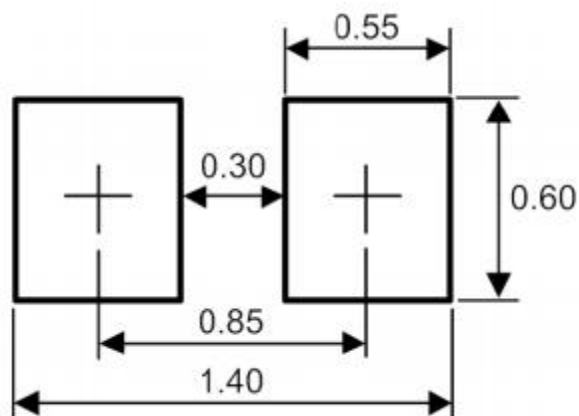
Pulse Derating Curve

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.