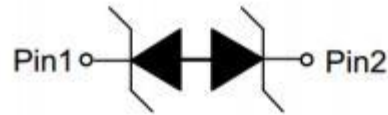


APPEARANCE



DFN1006-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED4.5H45-10 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 equipment. The APED4.5H45-10 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30KV$).

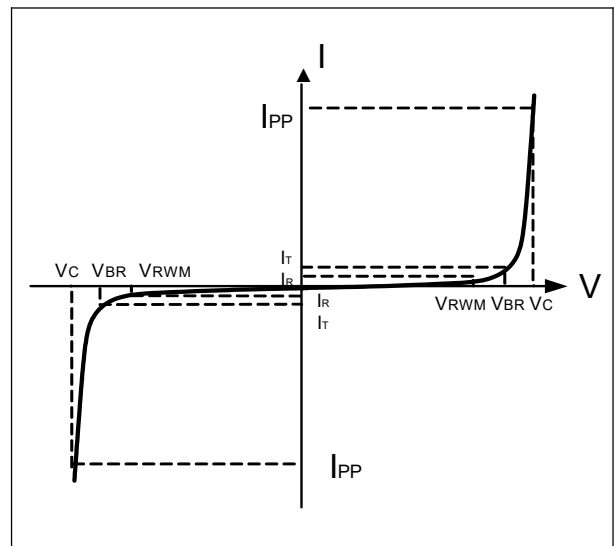
The APED4.5H45-10 is available in DFN1006-2L package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED4.5H45-10	DFN1006-2L	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



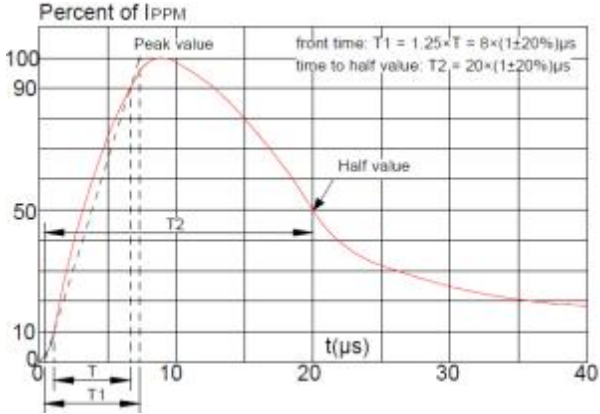
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	560	W
Peak pulse current (tp = 8/20μs)	I _{PP}	45	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	°C
Operating temperature	T _{OP}	-55~125	°C
Storage temperature	T _{STG}	-55~150	°C

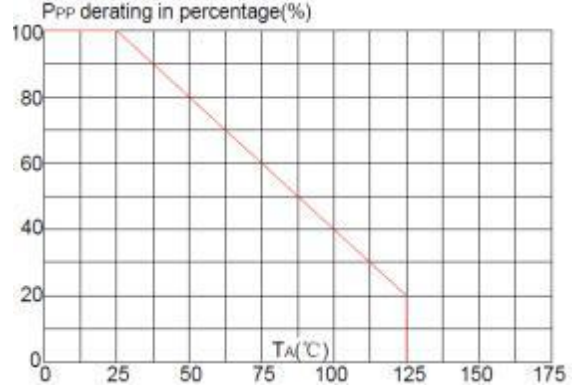
Electronics characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				4.5	V
Reverse Breakdown Voltage	VBR	I _t =1mA	4.6	5.1	6.0	V
Reverse Leakage Current	I _R	VRWM=±4.5V			0.2	μA
Clamping Voltage	V _C	I _{pp} =45A, tp=8/20us			16	V
Junction Capacitance	C _j	VR=0V, f=1MHz		80		pF

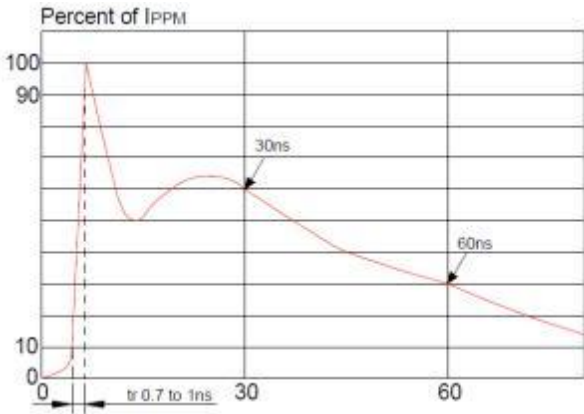
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)

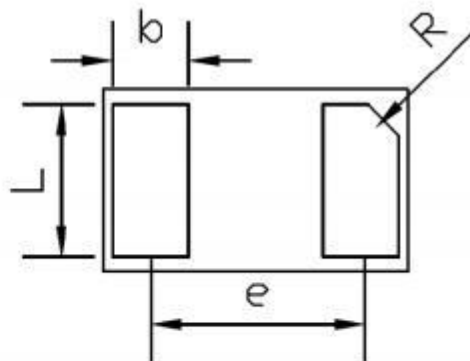
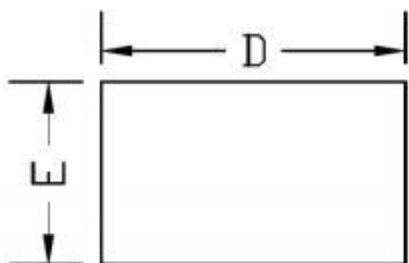


Pulse Derating Curve



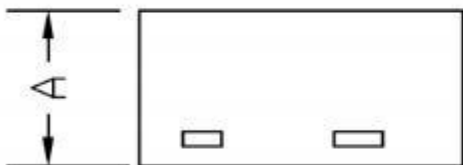
ESD Clamping(8kV Contact Discharge)

PACKAGE OUTLINE DIMENSIONS(DFN1006-2L)



TOP VIEW

BOTTOM VIEW



SIDE VIEW

COMMON DIMENSION (MM)			
PKG	DFN1006		
REF.	MIN.	NOM.	MAX
A	0.45	0.50	0.55
D	0.95	1.00	1.05
E	0.55	0.60	0.65
b	0.20	0.25	0.30
L	0.45	0.50	0.55
e	0.675		
R	0.07	0.10	0.13

Note:

This recommended land pattern is for reference purpose only.