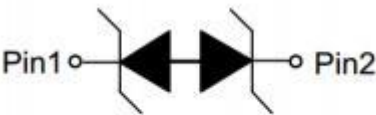


APPEARANCE



DFN0603-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED5.0L4.0-06 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 quipment. The APED5.0L4.0-06 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 15KV$).

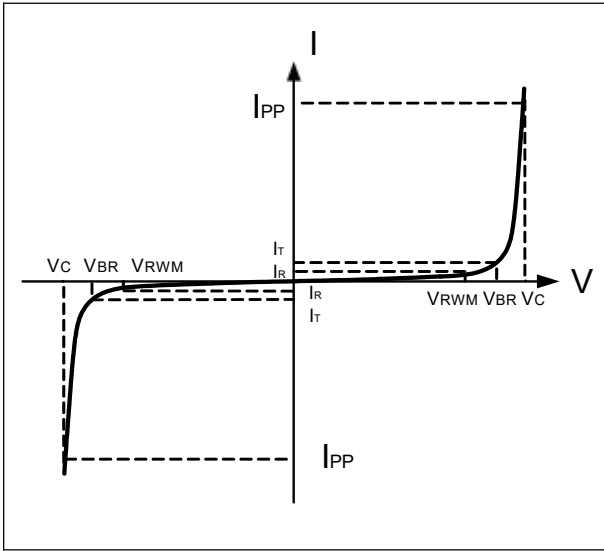
The APED5.0L4.0-06 is available in DFN0603-2L package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED5.0L4.0-06	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



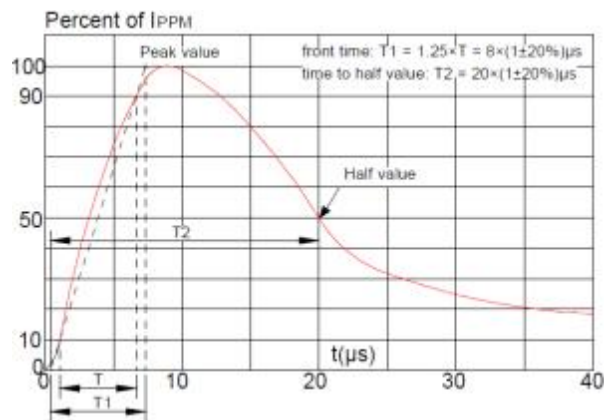
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power ($t_p = 8/20\mu s$)	Ppk	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}	± 15	kV
ESD according to IEC61000-4-2 contact discharge		± 15	kV
Junction temperature	T _J	150	℃
Operating temperature	T _{OP}	-55~125	℃
Storage temperature	T _{STG}	-55~150	℃

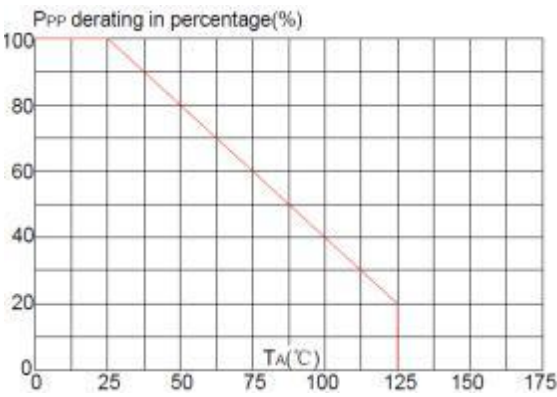
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				5.0	V
Reverse Breakdown Voltage	VBR	I _t =1mA	6.9	8.3	9.0	V
Reverse Leakage Current	I _R	VRWM=±5.0V			0.1	uA
Clamping Voltage	VC	I _{pp} =4.0A, $t_p=8/20\mu s$			25	V
Junction Capacitance	C _j	VR=0V, f=1MHz		0.35		pF

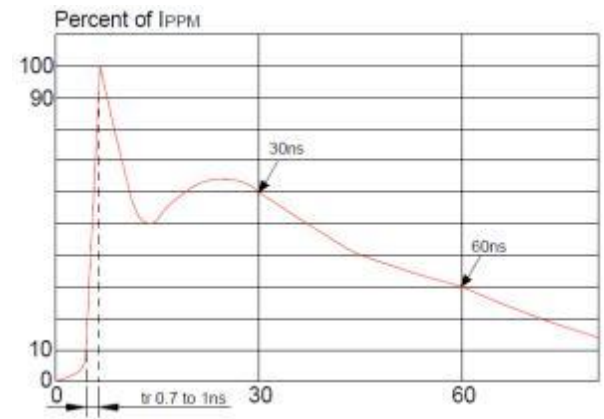
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)

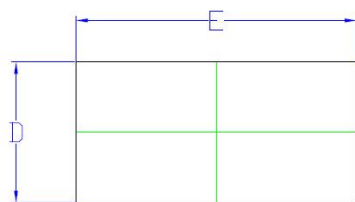


Pulse Derating Curve

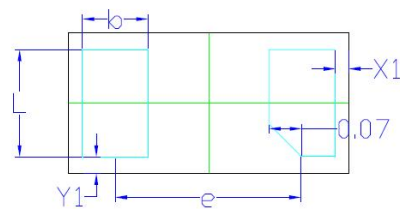


ESD Clamping(8kV Contact Discharge)

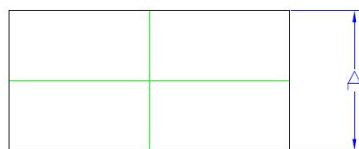
PACKAGE OUTLINE DIMENSIONS(DFN0603-2L)



TOP VIEW



BOTTOM VIEW



SIDE VIEW

Type	Dimensions			Unit mm
	Min	Non	Max	
A	0.280	0.300	0.320	
b	0.165	0.190	0.215	
D	0.250	0.300	0.350	
E	0.550	0.600	0.650	
e		0.380		
L	0.210	0.230	0.250	
X1	0.02	---	0.05	
Y1	0.02	---	0.05	

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