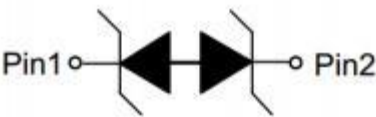


APPEARANCE



DFN0603-2L (Bottom View)

PIN CONFIGURATION



Pin configuration (Top view)

Descriptions

The APED5.0M8.0-06 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 APED5.0M8.0-06 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ($\pm 30\text{KV}$).

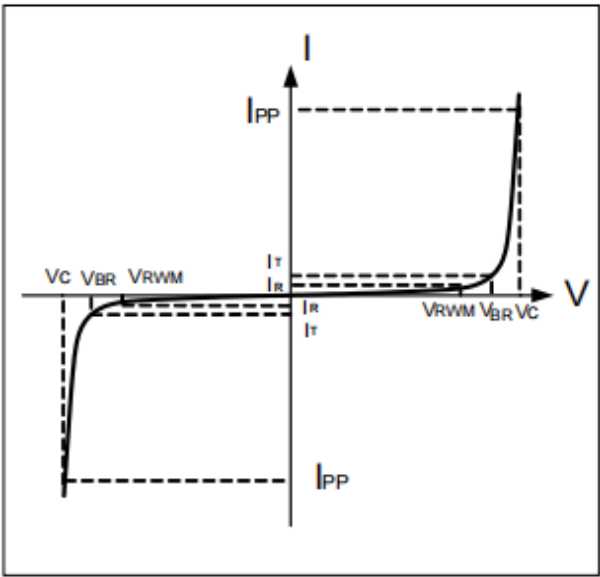
The APED5.0M8.0-06 is available in DFN0603-2L package. Standard products are Pb-free and Halogen-free.

Order information

Device	Package	Shipping
APED5.0M8.0-06	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



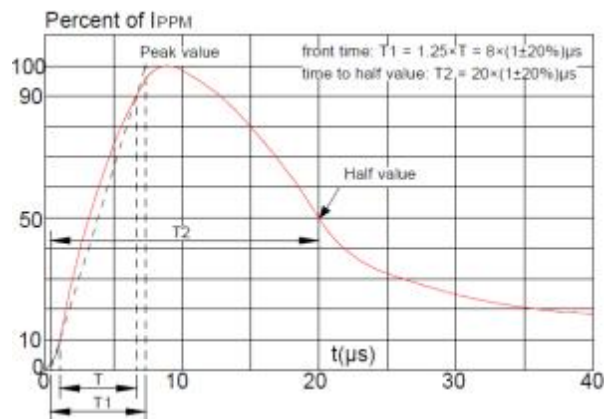
Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Peak pulse power ($t_p = 8/20\mu s$)	Ppk	80	W
Peak pulse current ($t_p = 8/20\mu s$)	I _{PP}	8.0	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	℃

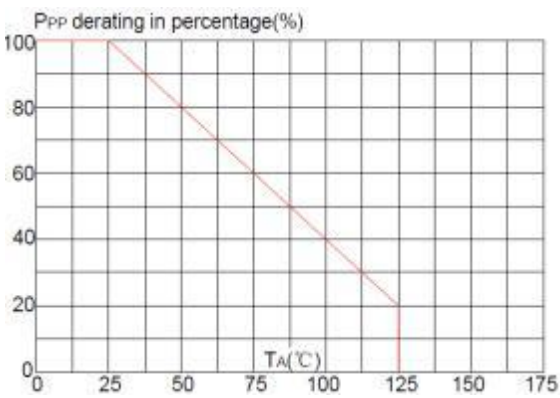
Electronics characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				5.0	V
Reverse Breakdown Voltage	VBR	I _t =1mA	5.6	6.1	8.0	V
Reverse Leakage Current	I _R	VRWM=±5.0V			0.1	uA
Clamping Voltage	V _C	I _{pp} =8.0A, $t_p=8/20\mu s$			11	V
Junction Capacitance	C _j	VR=0V, f=1MHz		17		pF

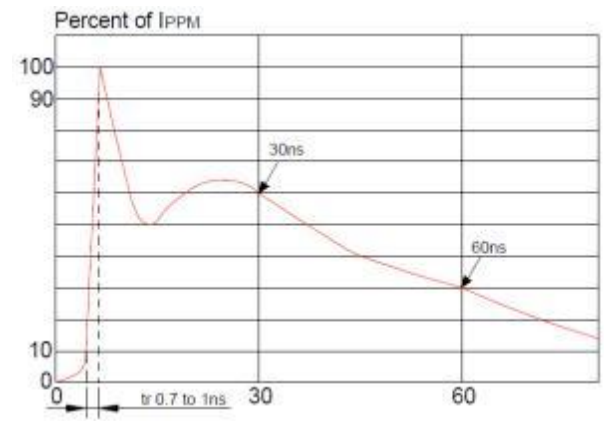
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)

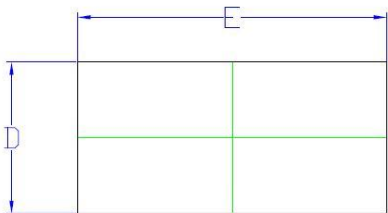


Pulse Derating Curve

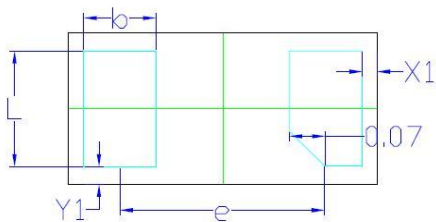


ESD Clamping(8kV Contact Discharge)

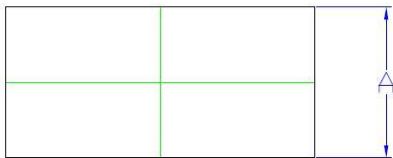
PACKAGE OUTLINE DIMENSIONS(DFN0603-2L)



TOP VIEW



BOTTOM VIEW



SIDE VIEW

Dimensions			Unit mm
Type	Min	Nom	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.