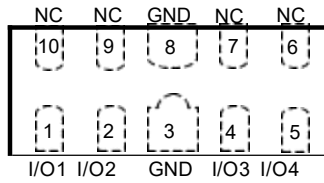


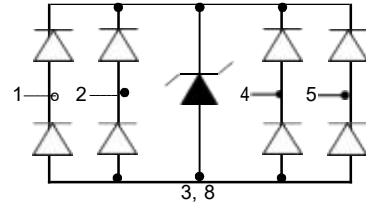
**APPEARANCE**



DFN2510-10L (Bottom view)



**PIN CONFIGURATION**



Pin configuration(Top view)

**Descriptions**

The APES3.3L4.0-25 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 APES3.3L4.0-25 is safely dissipating ESD strikes to meet the ESD immunity testing of IEC61000-4-2 ( $\pm 15KV$ ).

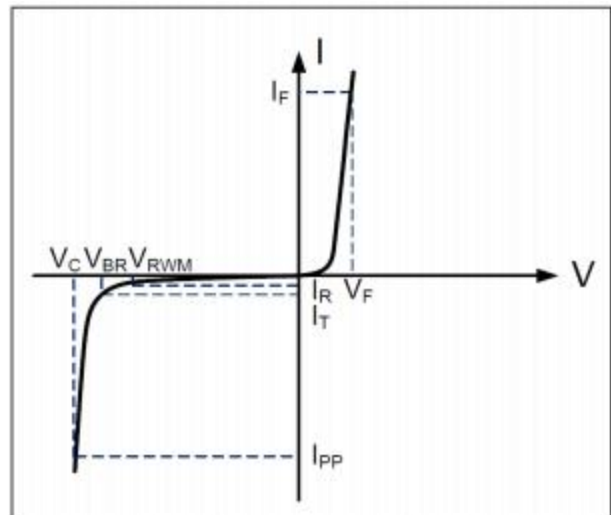
The APES3.3L4.0-25 is available in DFN2510 package. Standard products are Pb-free and Halogen-free.

**Order information**

Device	Package	Shipping
APES3.3L4.0-25	DFN2510	3000/Tape&Reel

**Electrical Parameters (T=25°C )**

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
$I_{PP}$	Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$



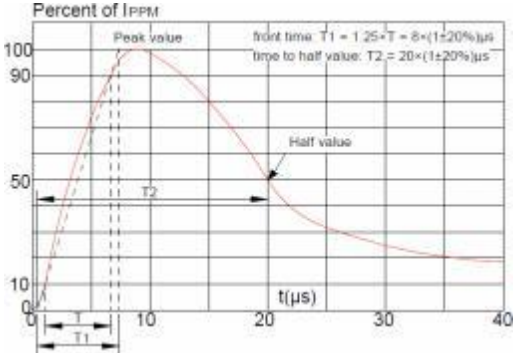
**Absolute maximum ratings**

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	Ppk	60	W
Peak pulse current (tp = 8/20μs)	I <sub>PP</sub>	4.0	A
ESD according to IEC61000-4-2 air discharge	V <sub>ESD</sub>	±15	kV
ESD according to IEC61000-4-2 contact discharge		±15	kV
Junction temperature	T <sub>J</sub>	150	°C
Operating temperature	T <sub>OP</sub>	-55~125	°C
Storage temperature	T <sub>STG</sub>	-55~150	°C

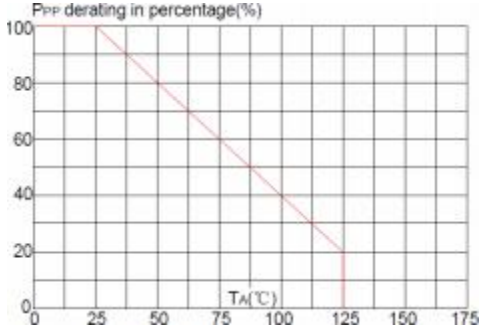
**Electronics characteristics (Ta=25°C)**

Parameter	Symbol	Condition	Min	Typ	Max	Units
Reverse Stand-off Voltage	VRWM				5.0	V
Reverse Breakdown Voltage	VBR	I <sub>t</sub> =1mA	5.8		8.8	V
Reverse Leakage Current	I <sub>R</sub>	VRWM=3.3V			0.1	uA
Clamping Voltage	VC	IO to GND I <sub>pp</sub> =4.0A, tp=8/20us			15	V
Junction Capacitance	C <sub>j</sub>	IO to GND VR=0V, f=1MHz		0.6		pF
Junction Capacitance	C <sub>j</sub>	IO to IO VR=0V, f=1MHz		0.3		pF

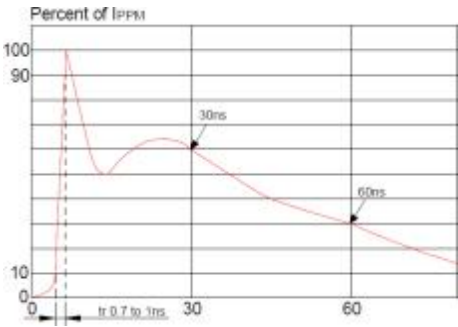
Typical characteristics (Ta=25°C)



Pulse Waveform (8/20us)

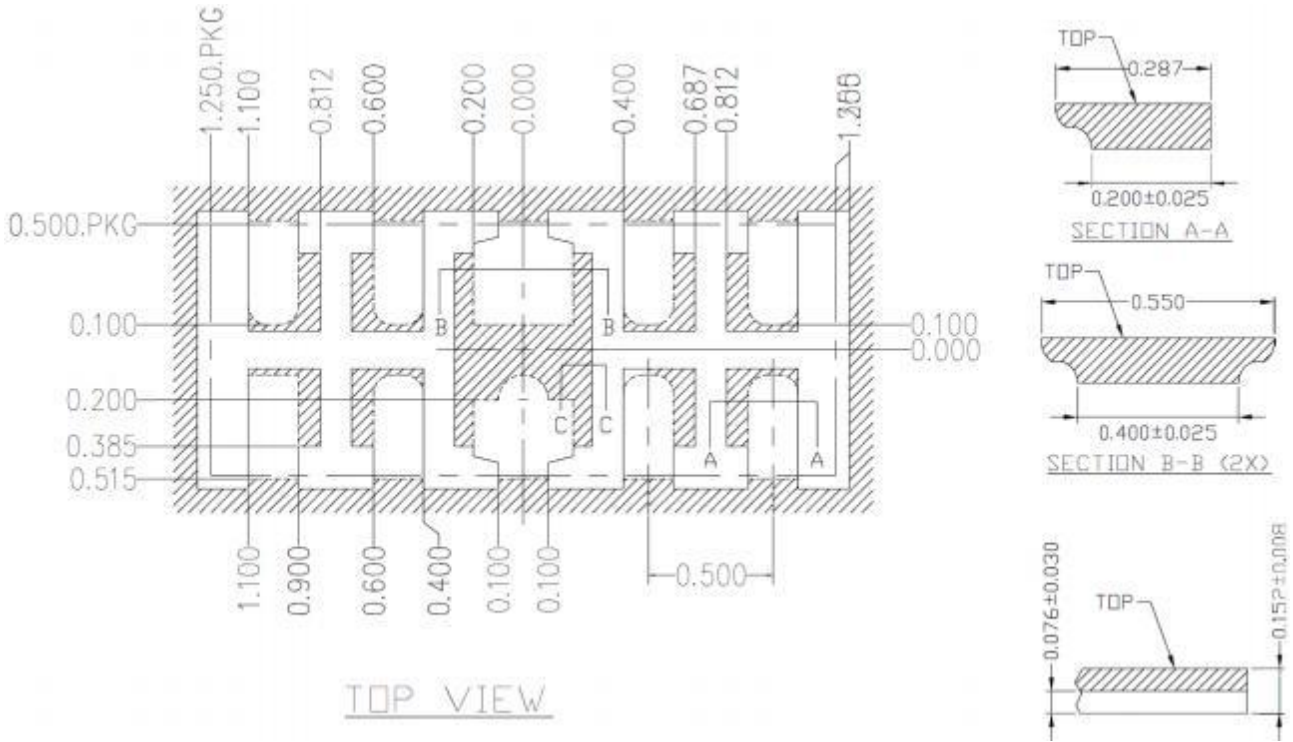


Pulse Derating Curve



ESD Clamping(8kV Contact Discharge )

PACKAGE OUTLINEDIMENSIONS(DFN2510)



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