

1-Line Uni-directional High Power TVS Diode Array

APPLICATION

- ◆ Mobile Phones
- ◆ Battery Protection
- ◆ Power Line Protection
- ◆ Vbat pin for Mobile Devices
- ◆ Hand Held Portable Applications



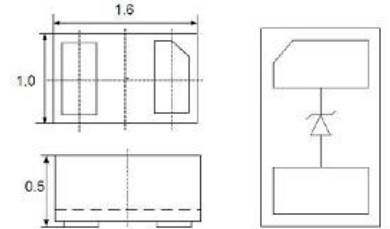
IEC COMPATIBILITY

Package: DFN1610

- ◆ IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact)
- ◆ IEC61000-4-5 (Lightning) 60A-135A (8/20 μs)

FEATURES

- ◆ Ultra small package: 1.6x1.0x0.5mm
- ◆ Protects one data or power line
- ◆ Working voltage: 7V
- ◆ 2-pin leadless package



Package Dimensions

Circuit and Pin Schematic

Electrical Characteristics

Parameter	Symbol	Value
ESD per IEC 61000-- (Air)	VESD	$\pm 30\text{kV}$
ESD per IEC 61000-- (Contact)		$\pm 30\text{kV}$
Operating Temperature Range	TJ	-55 to +125 °
Storage Temperature Range	Tstg	-55 to +150 °C

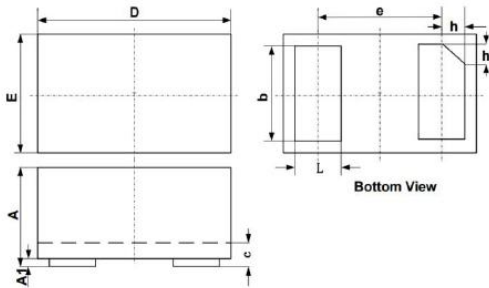
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Electrical Characteristics



Part Number	VRWM V	VBR V	IR (max) (uA)	Co Max value pF	Vc @1A Max V	Vc @ A Max V	Ipp@8/2 0us A max	Ppp 8/20us W	Delivery Time Days
HAP4511P6	4.5	4.8	0.8	750	7	18	135	2500	7days
HAP0511P6	5	6	1	650	8.5	15	120	1800	7days
HAP0711P6	7	8	1	550	10	20	80	1600	7days
HAP1211P6	12	13.3	0.2	500	18	25	70	1800	7days
HAP1511P6	15	16.5	0.1	450	22	32	60	2000	7days

Package Mechanical Data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	0.018	0.020	0.022
A1	0.00	0.02	0.05	0.000	0.001	0.002
b	0.75	0.80	0.85	0.030	0.032	0.034
c	0.10	0.15	0.20	0.004	0.006	0.007
D	1.55	1.60	1.65	0.062	0.064	0.066
e	1.10 BSC			0.044 BSC		
E	0.95	1.00	1.05	0.038	0.040	0.042
L	0.35	0.40	0.45	0.014	0.016	0.018
h	0.15	0.20	0.25	0.006	0.008	0.010

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
HAPxx11P6	3000pcs	7inch	DFN1610	7days

Specifications are subject to change without notice

2

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