

Discription

The AQHV15-01ETG-C is designed to protect voltage sensitive components from damage or latch-up due to ESD.Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed ESD for Be cau se of its small size and bi-directional design, it is ideal for use in cellular phones, MP3 players, and portable applications that require audio line protection.



DFN1006-2L

Features

- ★ IEC61000-4-2Level4ESDProtection
 - ±12kV Contact Discharge
 - ±15kV Air Discharge
- ★ 250WPeakpulsePower(8/20us)
- ★ Low clamping voltage
- ★ Workingvoltage:15V
- ★ Low leakage current
- ★ RoHS compliant
- ★ Protecting one bi-directional lines
- ★ Junction capacitance: 13pF Typ.

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Circuit Diagram

Applications

- ★ Cellular handsets and accessories
- ★ Battery Protection
- ★ Notebooks & Handhelds
- **★** Mobile Phones
- ★ MP3P layers
- ★ Peripherals

Ordering information

Product ID	Pack	Qty(PCS)
AQHV15-01ETG-C	DFN1006-2L	10000



Absolute Ratings(Tamb = 25°C)

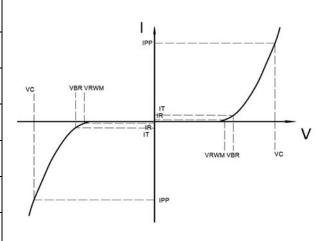
Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P_{pk}	-	250	W
Peak pulse current (tp=8/20us)@25°C	I _{PP}		7	А
ESD (IEC61000-4-2 air discharge) @25°C	V _{ESD}	-	±15	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V _{ESD}	-	±12	kV
Junction temperature	TJ	-	150	°C
Operating temperature	T _{OP}	-40	125	°C
Storage temperature	T _{STG}	-55	150	°C
Lead temperature	T _L	-	260	°C

Electrical Characteristics

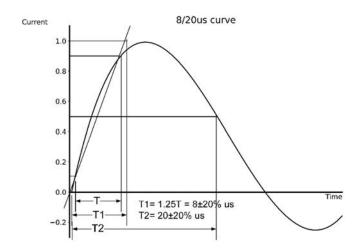
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V_{RWM}				15	V
Reverse Breakdown Voltage	V_{BR}	IT=1mA	16.5			V
Reverse Leakage Current	I _R	V _{RWM} =15V			1	uA
Clamping Voltage	Vc	I _{PP} =1A; tp=8/20us		22		V
Clamping Voltage	Vc	I _{PP} =7A; tp=8/20us		35		V
Junction Capacitance	С	I/O to GND; VR=0V; f=1MHz		13		pF



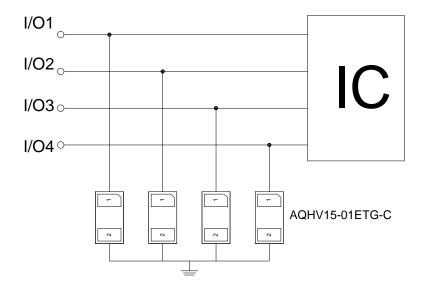
Symbol	Parameters
V _{RWM}	Peak Reverse Working Voltage
I _R	Reverse Leakage Current @ V _{RWM}
V_{BR}	Breakdown Voltage @ I _T
I _T	Test Current
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ IPP



Typical Characteristics

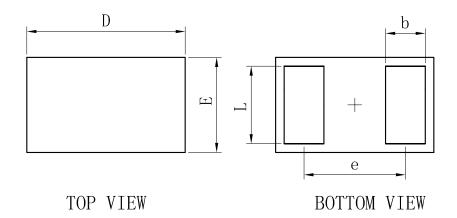


Typical Application

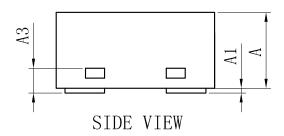




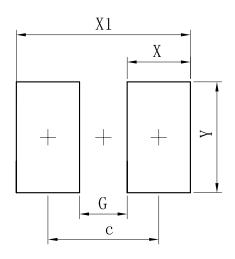
Outline And Dimensions



DFN1006-2L				
Dim	Min	Тур	Max	
D	0. 95	1.00	1.05	
Е	0. 55	0.60	0.65	
е	ı	0.64	-	
L	0.44	0.49	0. 54	
b	0. 20	0. 25	0.30	
A	0.43	0.48	0. 53	
A1	0	-	0.05	
А3	0. 127REF.			
All Dimensions in mm				



Soledering Footprint



Dimensions	(mm)
С	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70

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