



Description

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 Because 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
- ★ Working voltage:15V
- ★ Low leakage current
- ★ RoHS compliant
- ★ Protecting one bi-directional lines
- ★ Junction capacitance: 13pF Typ.



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)

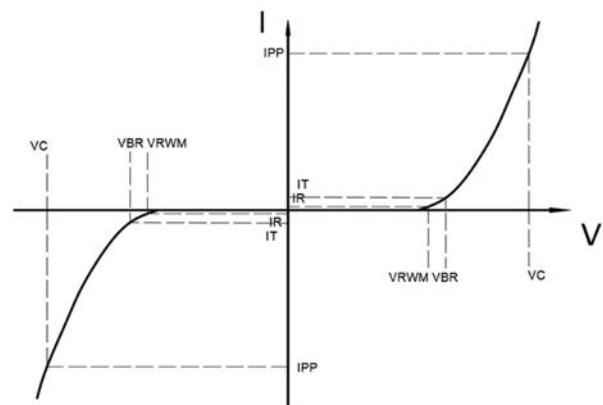
Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P _{pk}	-	250	W
Peak pulse current (tp=8/20us)@25°C	I _{PP}		7	A
ESD (IEC61000-4-2 air discharge) @25°C	V _{ESD}	-	±15	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V _{ESD}	-	±12	kV
Junction temperature	T _J	-	150	°C
Operating temperature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

Electrical Characteristics

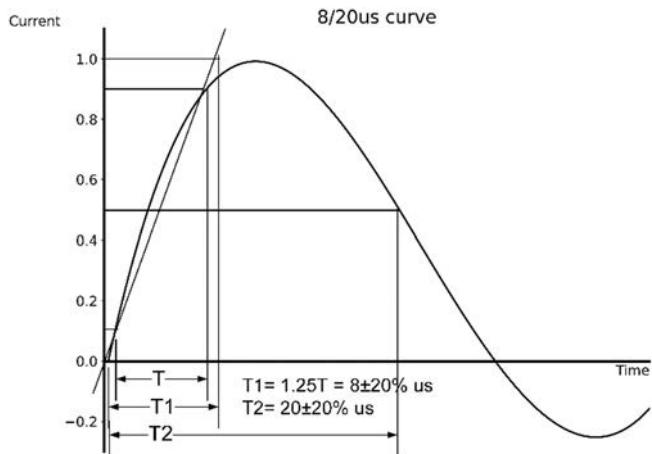
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}				15	V
Reverse Breakdown Voltage	V _{BR}	IT=1mA	16.5			V
Reverse Leakage Current	I _R	V _{RWM} =15V			1	uA
Clamping Voltage	V _C	I _{PP} =1A; tp=8/20us		22		V
Clamping Voltage	V _C	I _{PP} =7A; tp=8/20us		35		V
Junction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



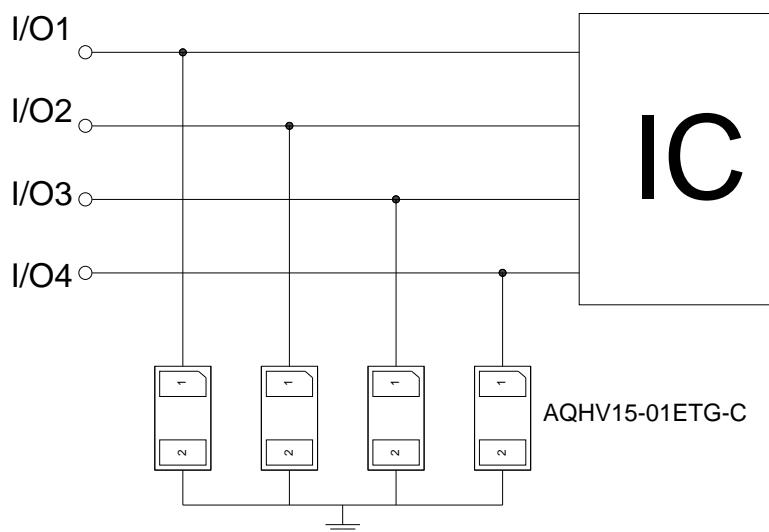
Symbol	Parameters
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}



Typical Characteristics

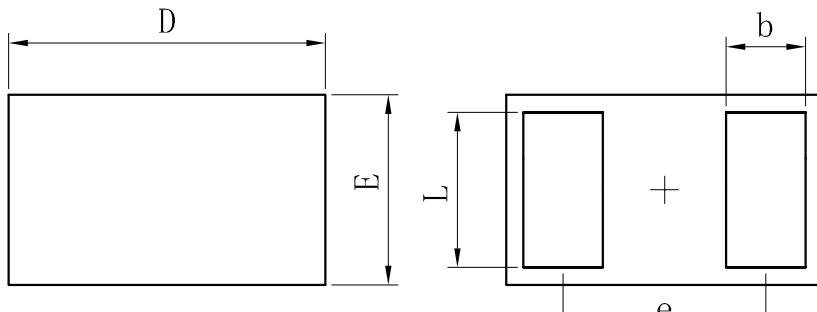


Typical Application



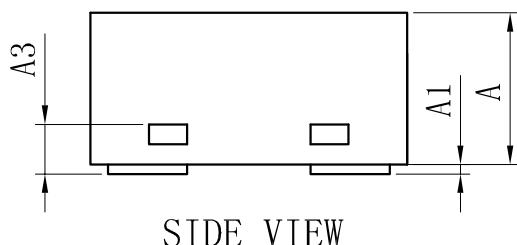


Outline And Dimensions



TOP VIEW

BOTTOM VIEW

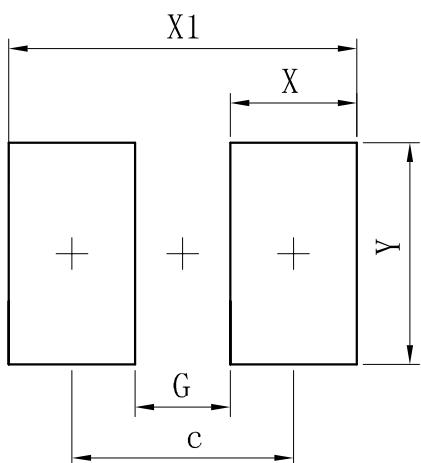


SIDE VIEW

DFN1006-2L			
Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	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
A3	0.127REF.		

All Dimensions in mm

Soldering Footprint



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



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