

ESDLC5V0APB

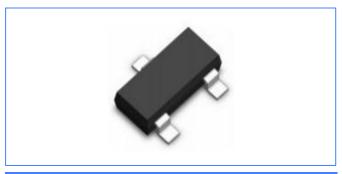
Description

Designed to protect voltage sensitive electronic components from ESD and other transients. Excellent clamping capability, low leakage, low capacitance, and fast response time provide best in class protection on designs that are exposed to ESD. The combination of small size, low capacitance, and high level of ESD protection makes them a flexible solution for applications such as HDMI, Display Port TM, and MDDI interfaces. It is designed to replace multiplayer varistors (MLV) in consumer equipments applications such as mobile phone, notebook, PAD, STB, LCD TV etc.

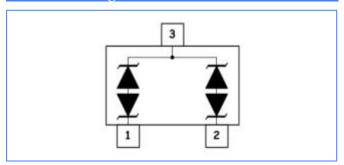
Features

- Bi-directional ESD protection of two lines
- Low capacitance: 12pF(Typ.)
- Low reverse stand-off voltage: 5.0V
- Low reverse clamping voltage
- Low leakage current
- Fast response time
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test

Air discharge: ±15kV Contact discharge: ±8kV



Functional Diagram

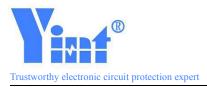


Applications

- Computers and peripherals
- PAD
- Audio and video equipment
- Cellular handsets and accessories
- Subscriber identity module(SIM) card protection
- Portable electronics
- Other electronics equipments communication systems

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

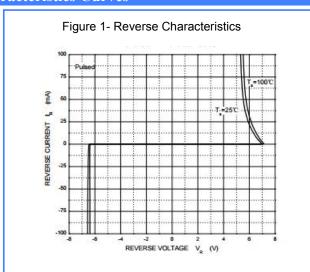
Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	P _{PP}	Watts		
ESD per IEC 61000-4-2 (Air)	\/	±25	KV	
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±25	KV	
Lead Soldering Temperature	TL	260 (10 sec)	°C	
Operating Temperature Range	T₃	-55 to +150	°C	
Storage Temperature Range	T _{STJ}	-55 to +150	°C	

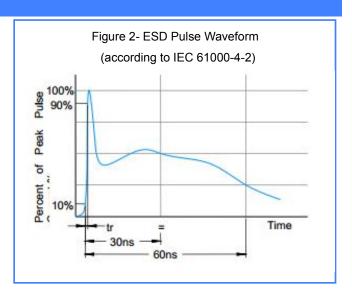


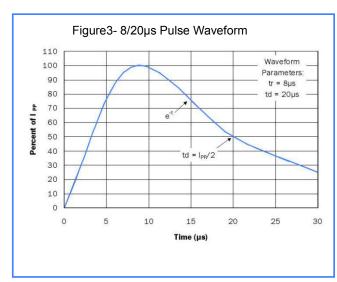
Electrical Characteristics (TA = 25 °C unless otherwise noted)

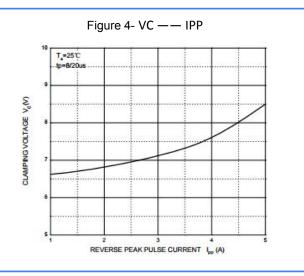
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	$V_{\scriptscriptstyle RWM}$				5	V
Reverse Breakdown Voltage	$V_{\scriptscriptstyle BR}$	I _t = 1mA	5.8		8	>
Reverse Leakage Current	I _R	$V_R = V_{RWM}$			1	μΑ
Clamping Voltage	Vc	@5A			10	V
Junction Capacitance	C,	$V_R=0V$, $f=1MHz$		12	15	pF

Characteristics Curves

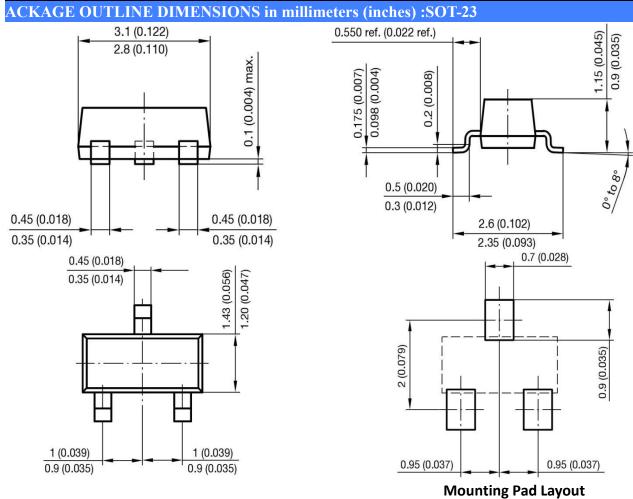












Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.