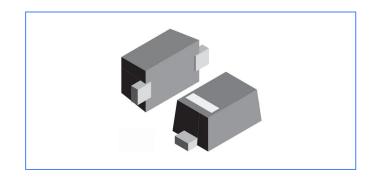


ESDULC5V0D5

Description

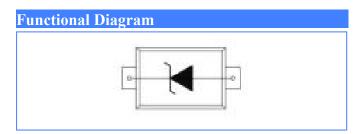
The ESDULC5V0D5 is designed to protect voltage sensitive components that require ultra-low capacitance from ESD and transient voltage events. Excellent clamping capability, low capacitance, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its low capacitance, it is suited for use in high frequency designs such as USB 2.0 high speed and antenna line applications.



Features

- Ultra Low Capacitance 0.5 pF
- Low Clamping Voltage
- Small Body Outline Dimensions
- Stand-off Voltage: 5 V
- Low Leakage
- Response Time is Typically < 1.0 ns</p>
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test

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



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

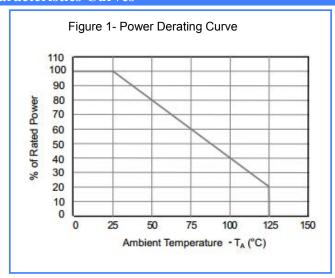
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	P _{PP}	100	Watts
ESD per IEC 61000-4-2 (Air)	V	±15	KV
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±10	KV
Lead Soldering Temperature	TL	260 (10 sec)	°C
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

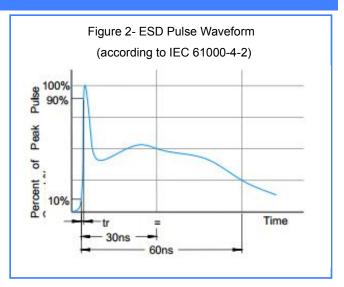


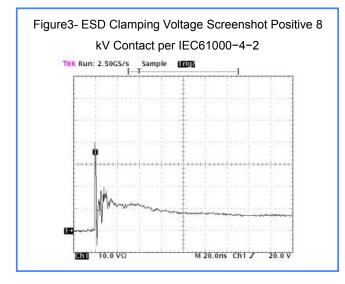
Electrical Characteristics (TA = 25 °C unless otherwise noted)

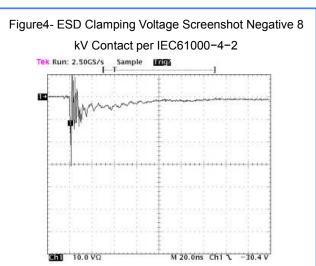
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _t = 1mA	5.4			V
Reverse Leakage Current	I _R	V _R =V _{RWM}			1	μΑ
Clamping Voltage	Vc	I_{PP} =1A, t_P = 8/20 μ s			9.8	V
Junction Capacitance	Сл	V _R =0V, f = 1MHz		0.5	0.9	pF

Characteristics Curves



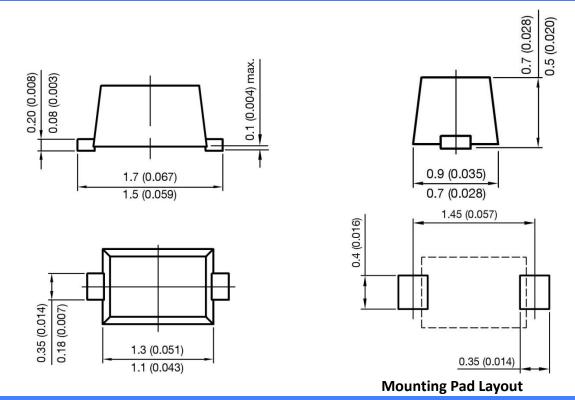








ACKAGE OUTLINE DIMENSIONS in millimeters (inches) :SOD523



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.

单击下面可查看定价,库存,交付和生命周期等信息

>>Yint(音特电子)