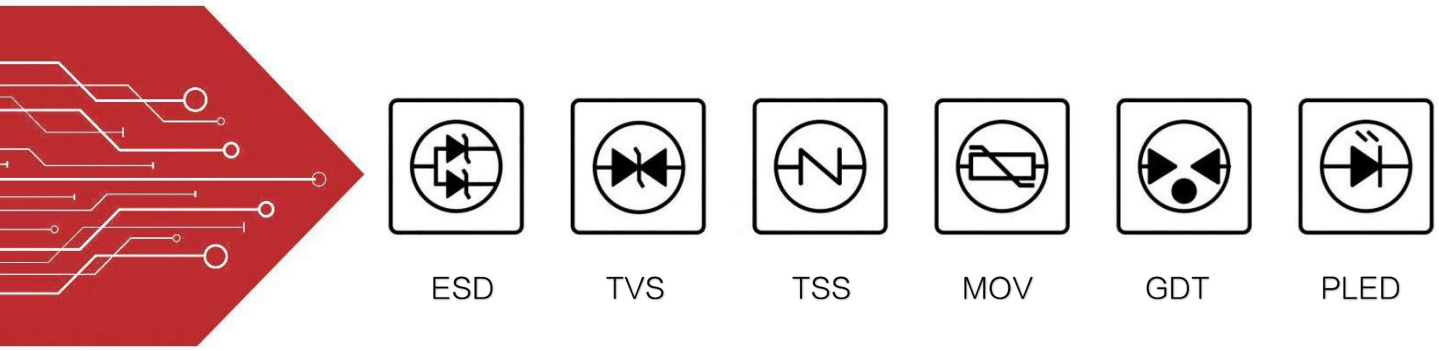
MSKSEMI
SEMICONDUCTOR

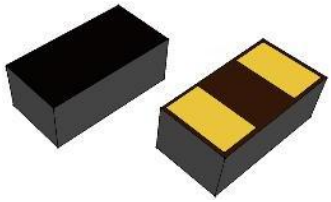


Product data sheet

Features

Ultra-Low capacitance:0.05pF(typ.)
Low leakage current(<10nA)
Fast response time(<1ns)
Bi-directional,single line protection
IEC 61000-4-2 (ESD Air): 15kV
IEC 61000-4-2 (ESD Contact): 8kV

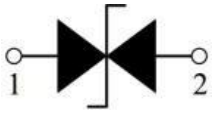
Pin Description



Applications

USB 3.0/3.1
HDMI 1.3/1.4/2.0
RF Antenna
SATA and eSATA Interface

Schematic Diagram

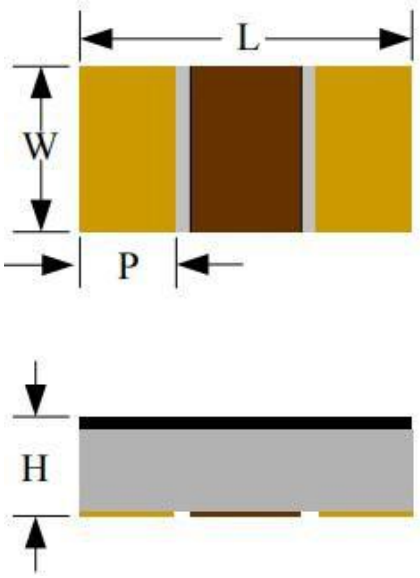


Limiting Values(T_A = 25 °C, unless otherwise specified)

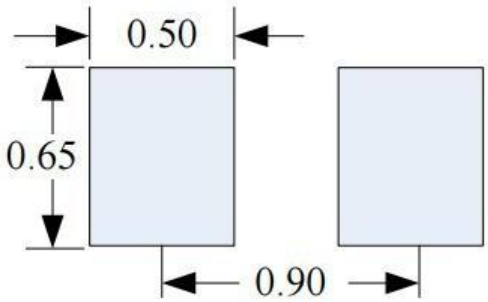
Symbol	Parameter	Conditions	Min	Max	Unit
V_{ESD}	Electrostatic Discharge Voltage	IEC 61000-4-2; Contact Discharge	-	8	kV
		IEC 61000-4-2; Air Discharge	-	15	kV
T_A	Operating Temperature Range	-	-55	125	℃
T_{stg}	Storage Temperature Range	-	-40	85	℃

Electrical Characteristics(T_A = 25 °C unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ.	Max	Unit
V_{DC}	Continuous Operating Voltage	-	-	-	18	V
V_T	Trigger Voltage	IEC61000-4-2 8kV contact discharge	-	450	-	V
V_C	Clamping Voltage	IEC61000-4-2 8kV contact discharge	-	40	-	V
I_L	Leakage Current	DC 5V shall be applied on component	-	-	10	nA
C_J	Capacitance	Measured at 10MHz	-	0.05	-	pF



Recommended Solder Pad Footprint



***Sizes in mm**

Notes：

This solder pad layout is for reference purposes only.

Dimension	Unit: Millimeters	
	Min.	Max.
L	0.90	1.10
W	0.42	0.62
p	0.15	0.35
H	0.25	0.45

REEL SPECIFICATION

P/N	PKG	QTY
PESD18VF1BLYL-MS	SOD-882	10000

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