

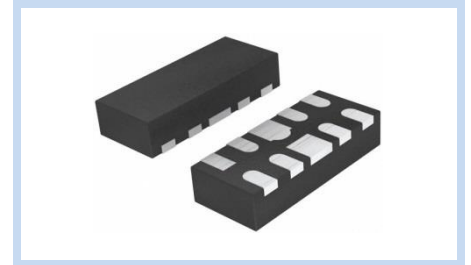
ESD Suppressor 5V 4-Unidirectional DFN2510

ME54U10D2510P4

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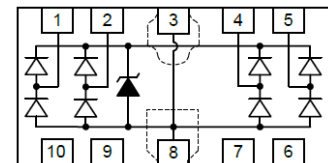
FEATURE

- IEC 61000-4-2 ESD: $\pm 10\text{KV}$ (Air) $\pm 10\text{KV}$ (Contact)
- ESD Protection for four Unidirectional Channels
- Low Capacitance
- Low Clamping Voltage
- Solid-State Silicon-Avalanche Technology



APPLICATION

- High Definition Multi-Media Interface (HDMI 1.4)
- Digital Visual Interface (DVI)
- Display Port Interface
- SATA Interface
- Desktops and Notebooks



MAXIMUM RATINGS AND CHARACTERISTICS

Parameter	Symbol	Value	Unit
ESD Voltage (Contact discharge)	V_{ESD}	± 10	KV
ESD Voltage (Air discharge)		± 10	
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	2	A
Operating & Storage Temperature Range	T_J, T_{STG}	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

Parameter	Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	--	V_{RWM}	--	--	5	V
Reverse Breakdown Voltage	$I_{BR}=1\text{mA}$	V_{BR}	6	--	--	V
Reverse Leakage Current	$V_R=5\text{V}$, Each I/O pin	I_R	--	--	1	μA
Clamping Voltage	$I_{PP}=2\text{A}$, $t_p=8/20\mu s$	V_C	--	10	--	V
Off State Junction Capacitance	$V_{dc}=0$, $f=1\text{MHz}$	C_J	--	0.35	0.40	pF

Notes:

1. $T_J=25^{\circ}\text{C}$ unless otherwise specified

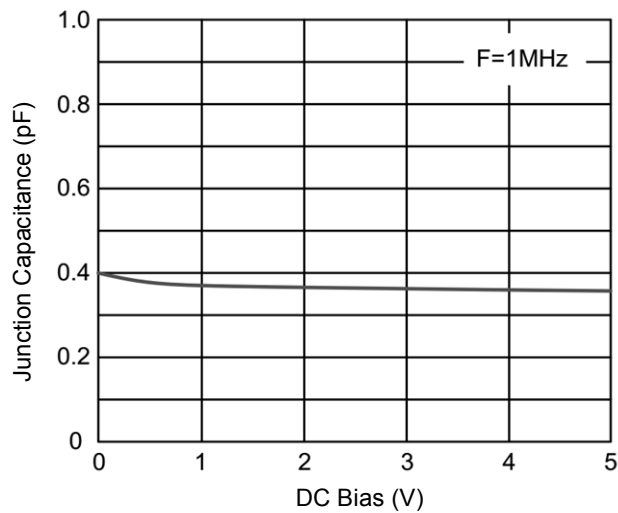
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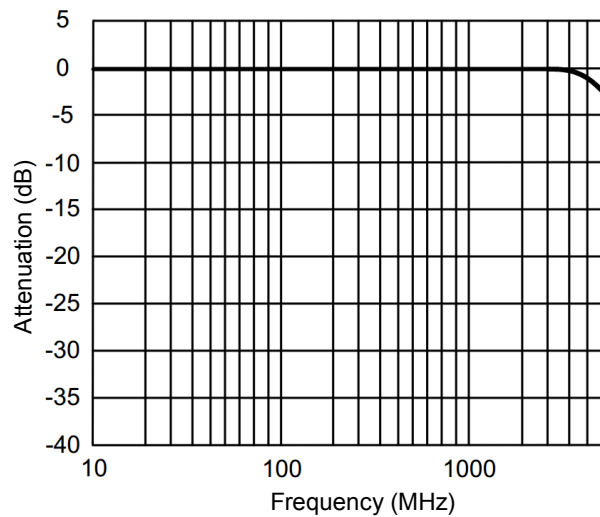
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CHARACTERISTIC CURVES

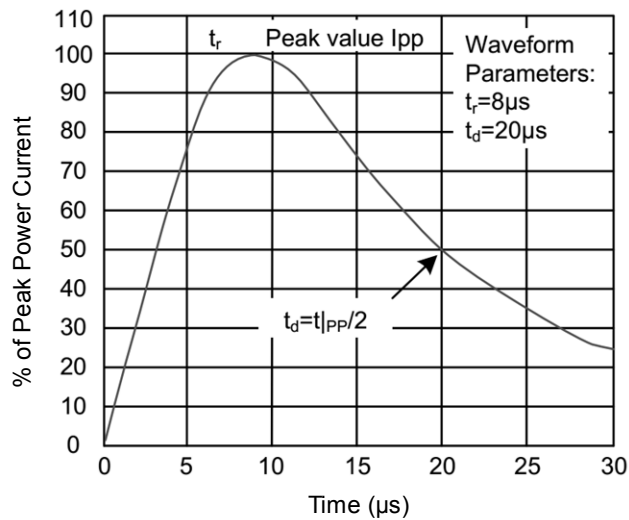
Capacitance vs. Bias Voltage



Insertion Loss (S21) I/O to GND



Pulse Waveform



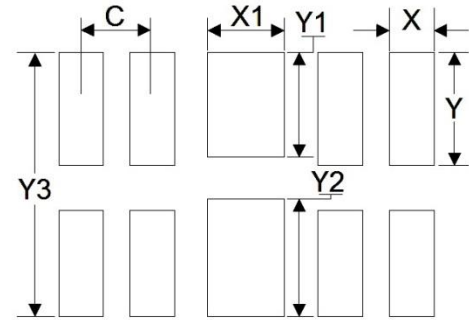
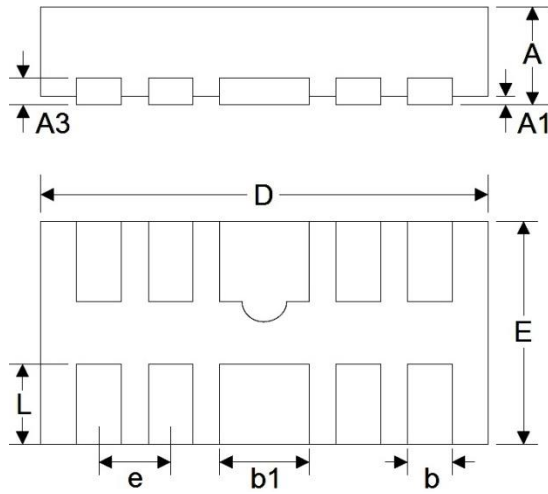
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DIMENSIONS AND RECOMMENDED LAND PATTERN

Item	Min (mm)	Max (mm)
A	0.45	0.65
A1	-	0.05
A3	0.10	0.20
b	0.15	0.25
b1	0.35	0.45
D	2.40	2.60
e	0.50	0.50
E	0.90	1.10
L	0.35	0.45
C	0.50	0.50
X	0.25	0.25
X1	0.45	0.45
Y	0.63	0.63
Y1	0.58	0.58
Y2	0.70	0.70
Y3	1.40	1.40



*Specifications subject to change without notice.