

ESD Suppressor 5V 6-Unidirectional DFN3310

ME56U10D3310

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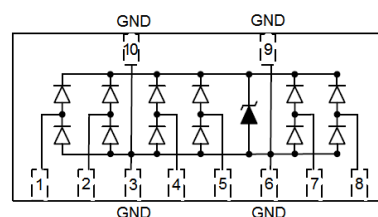
FEATURE

- IEC 61000-4-2 ESD: $\pm 10\text{KV}$ (Air) $\pm 10\text{KV}$ (Contact)
- ESD Protection for six 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 ($t_p=8/20\mu\text{s}$)	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	$I_{\text{BR}}=1\text{mA}$	V_{BR}	6	--	--	V
Reverse Leakage Current	$V_{\text{R}}=5\text{V}$	I_{R}	--	--	1	μA
Clamping Voltage	$I_{\text{PP}}=2\text{A}, t_p=8/20\mu\text{s}$	V_{C}	--	10	--	V
Off State Junction Capacitance	$V_{\text{dc}}=0, f=1\text{MHz}, \text{I/O pin to GND}$	C_{J}	--	0.4	--	pF
	$V_{\text{dc}}=0, f=1\text{MHz}, \text{Between I/O pins}$		--	0.2	--	

Notes:

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

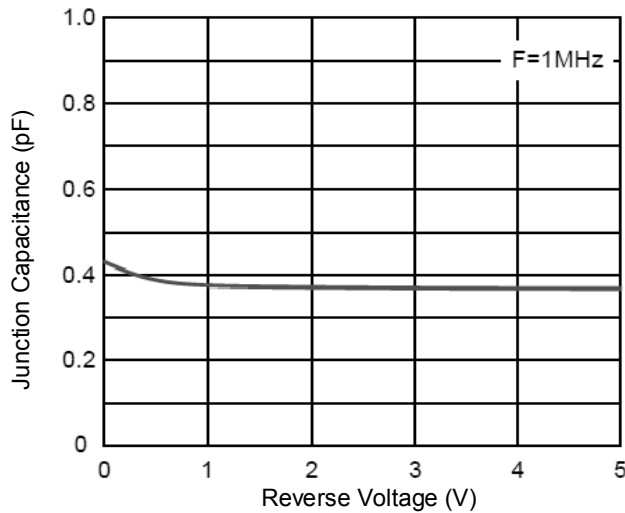
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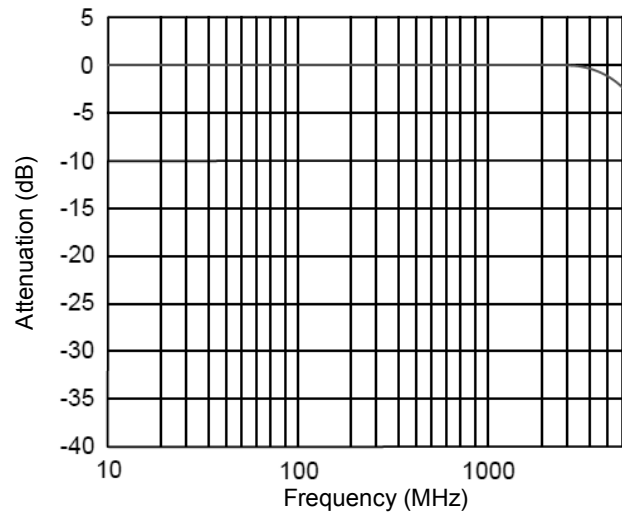
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CHARACTERISTIC CURVES

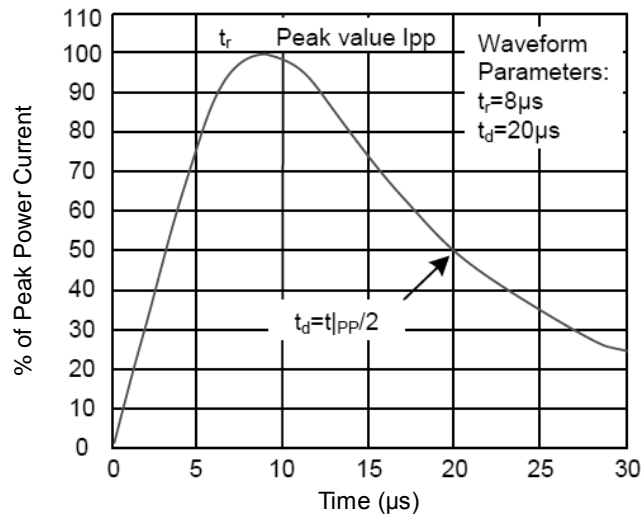
Capacitance vs. Reverse Voltage



Insertion Loss (S21) I/O to GND



Pulse Waveform



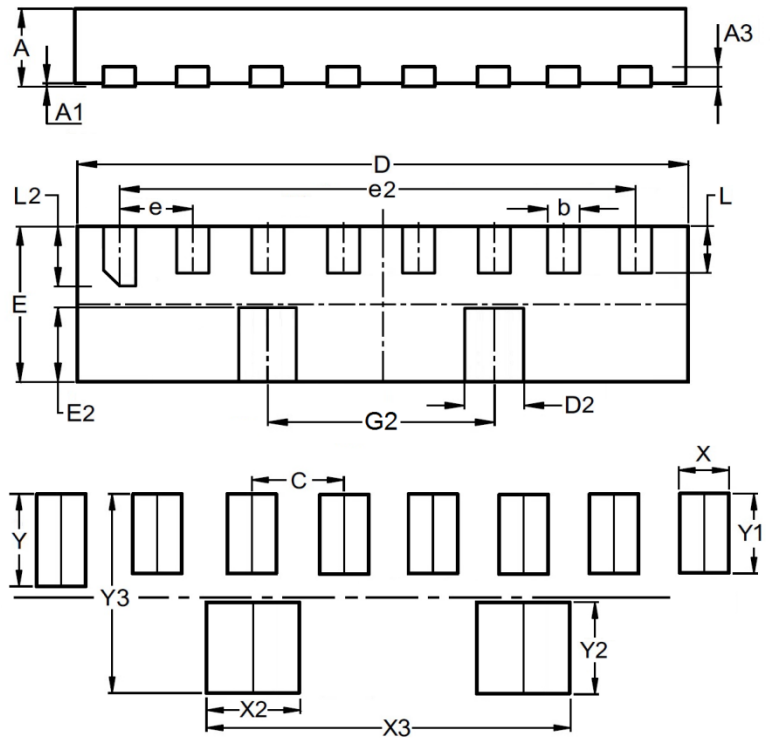
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DIMENSIONS AND RECOMMENDED LAND PATTERN

Item	Min (mm)	Max (mm)
A	0.45	0.55
A1	-	0.05
A3	0.10	0.15
b	0.15	0.25
D	3.25	3.35
e	0.40	0.40
e2	2.80	2.80
E	0.95	1.05
E2	0.45	0.55
G2	1.19	1.19
L	0.20	0.30
L2	0.30	0.40
c	0.40	0.40
X	0.25	0.25
X2	0.50	0.50
X3	1.66	1.66
Y	0.50	0.50
Y1	0.40	0.40
Y2	0.65	0.65
Y3	1.20	1.20



*Specifications subject to change without notice.