FEATURES

)($51814.2 TD[(0 TD[( )]TJ 122.391 0 TD[(R)]TJ88.7971 0 TD[(25 221 Tf 1 i 122.443S)]TJ 1 i 184.838 0 TJ 17

- Capacitance: 0.3pF(typ.)
- Reverse Working Voltage: 5.0V
- IEC 61000-4-2 (ESD Air): ±30KV
- IEC 61000-4-2 (ESD Contact): ±30KV
- IEC 61000-4-5 (Lightning 8/20µs): 5.5A

APPLICATION

- Smart Phone and Tablet PC
- TV and Set Top Box
- Wearable Devices
- PDA

ESD1006B5V0

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

Parameter	Conditions	Symbol	Min	Max	Unit
Electrostatic Discharge Voltage	IEC 61000-4-2; Contact Discharge	V_{ESD}	-	±30	kV
	IEC 61000-4-2; Air Discharge		-	±30	kV
Peak Pulse Power	t_P = 8/20 µs	P_{PP}	-	55	W
Rated Peak Pulse Current	t_P = 8/20 µs	I_{PPM}	-	5.5	A
Ambient Temperature Range					

Typical Characteristics

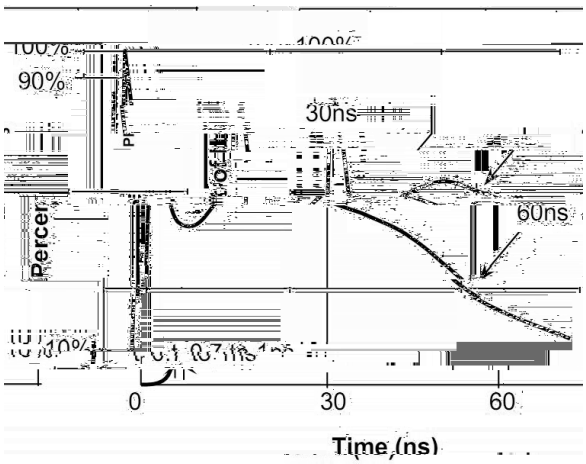


Fig.1 Pulse Waveform-ESD (IEC61000-4-2)

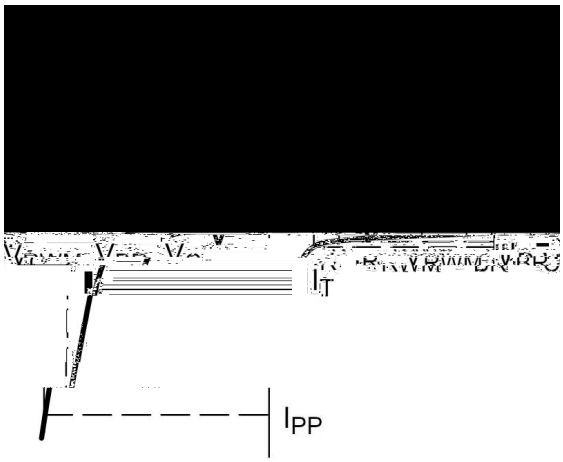


Fig.2 V-I Characteristics for Bidirectional Diode

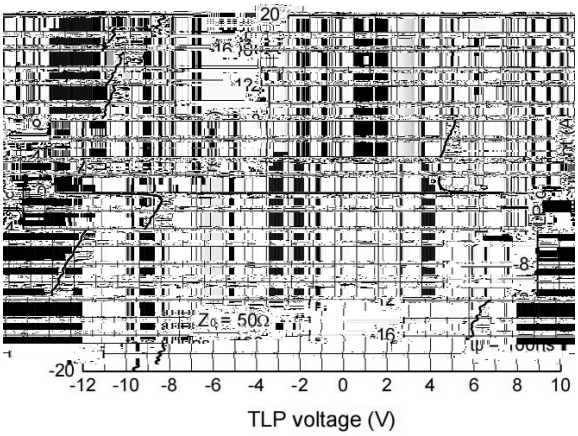


Fig.3 Transmission Line Pulse (TLP)

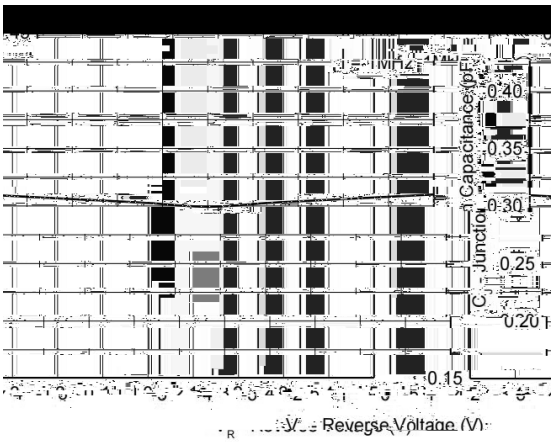


Fig.4 Capacitance-Voltage Curve

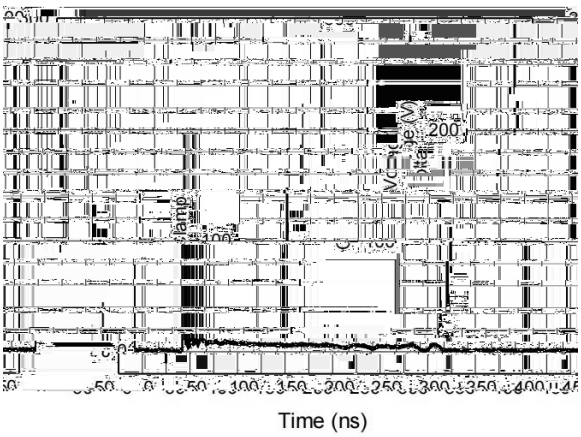


Fig.5 Clamping Voltage at IEC61000-4-2
+8kV Pulse Waveform

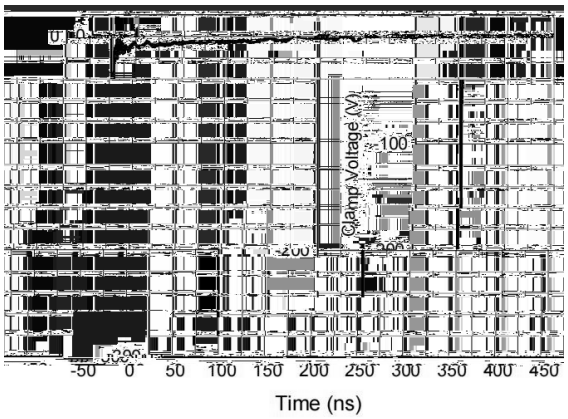
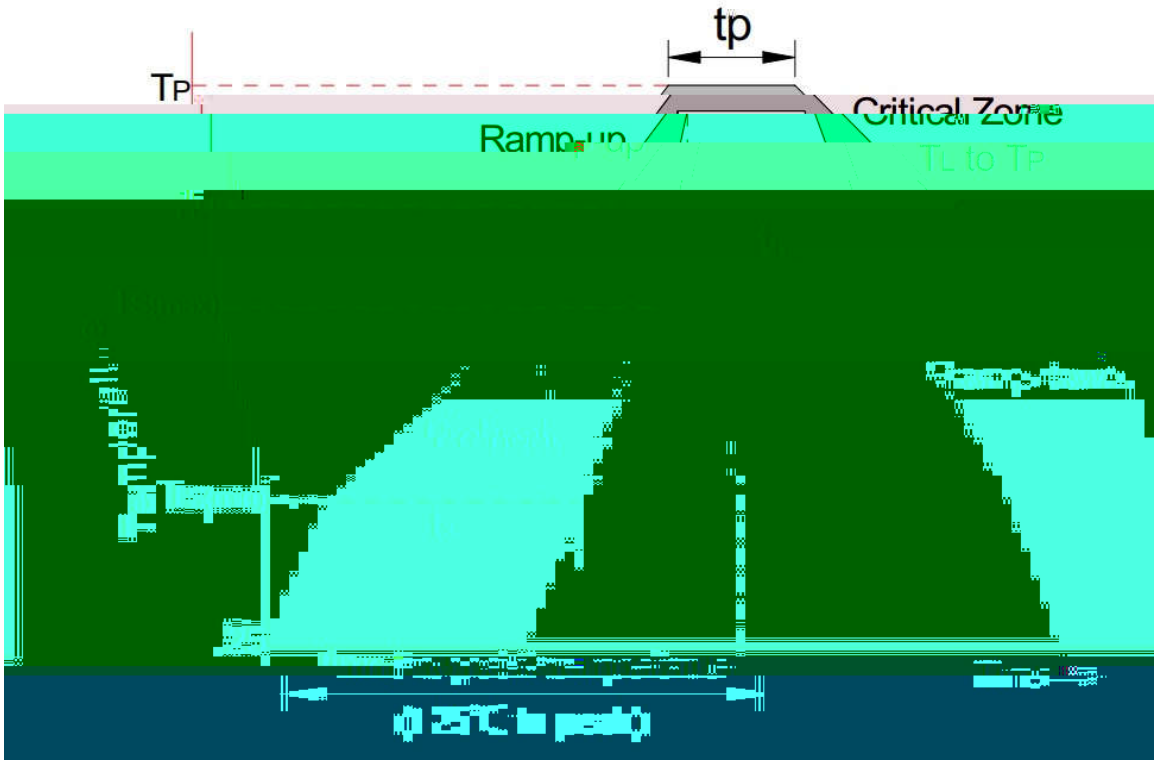


Fig.6 Clamping Voltage at IEC61000-4-2
-8kV Pulse Waveform



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