- Ultra small package
- Stand-off voltage: 7V Max
- Transient protection for each line according to
  IEC61000-4-2(ESD): ±30kV (contact)
  IEC61000-4-4 (EFT): 80A (5/50ns)
  IEC61000-4-5(surge): 32A (8/20μ

■ (Ta=25°C unless otherwise specified)

		Rating	
Peak pulse power (t_p = 8/20μs)	P_{pk}	480	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	32	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	KV
Junction temperature	T_J	125	°C
Operating temperature	T_{OP}	-40~85	°C
Storage temperature	T_{STG}	-55~150	°C

■ (Ta=25 Unless otherwise specified)

Reverse maximum working voltage	V_{RWM}	V				7
Reverse leakage current	I_R	nA	V_{RWM} =7V			100
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	8	8.8	9.5
Forward voltage	V_F	V	I_F = 20mA	0.45		1.25
Clamping voltage [1)]	V_{CL}	V	I_{PP} = 16A, t_p = 100ns		9.0	
Dynamic resistance [1)]	R_{DYN}	Ω			0.3	
Clamping voltage [2)]	V_{CL}	V	V_{ESD} = 8kV		9.0	
Clamping voltage [3)]	V_{CL}	V	I_{PP} = 1A, t_p = 8/20μs			10
		V	I_{PP} = 32A, t_p = 8/20μs			15
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz		150	200
		pF	V_R = 2.5V, f = 1MHz		120	160

(1). TLP parameter: Z_0 = 50Ω, t_p = 100ns, t_r = 2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.
(2). Contact discharge mode, according to IEC61000-4-2.
(3). Non-repetitive current pulse, according to IEC61000-4-5.

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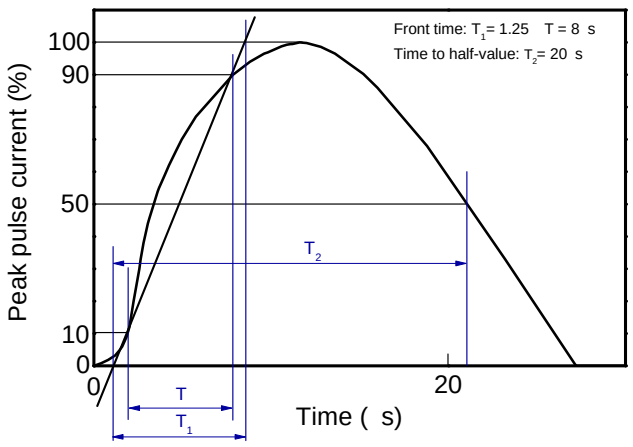
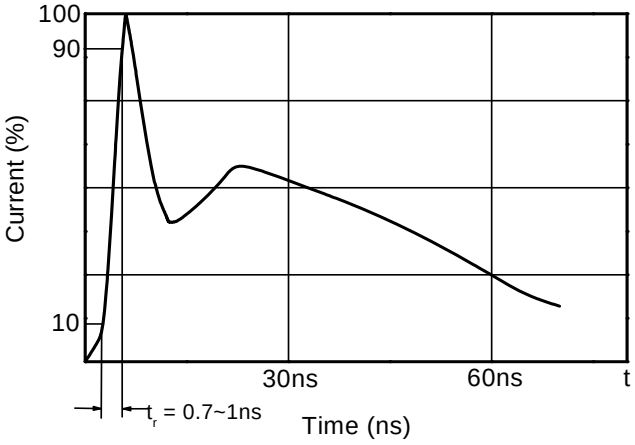
ESD7V0LA	Approximate 0.9	10000	100000	400000	Tae& reel

■ (Ta=25 unless otherwise Specified)

8/20μs waveform per IEC61000-4-5

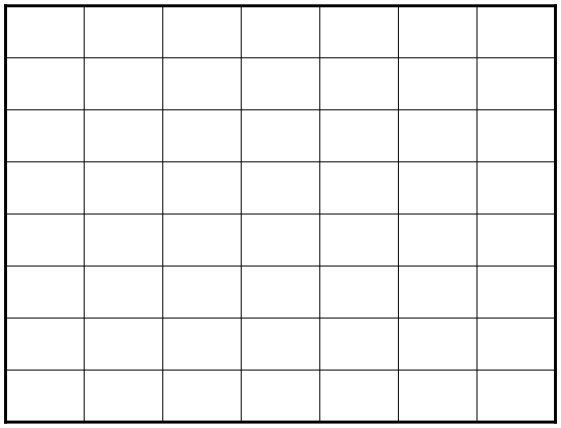


Contact discharge current waveform per IEC61000-4-2



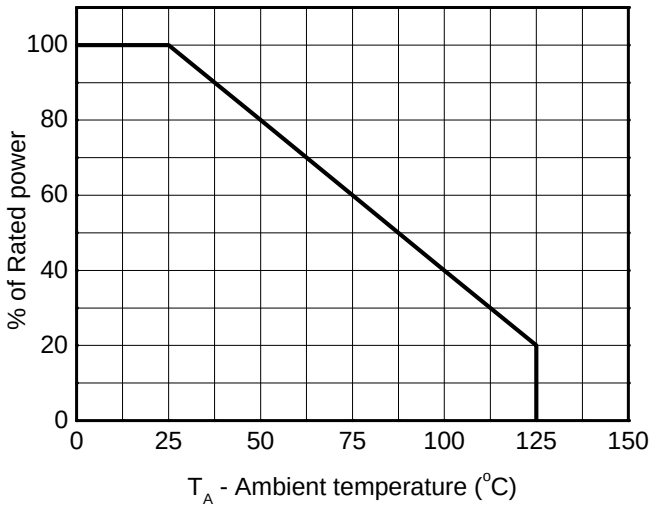
Clamping voltage vs. Peak pulse current

Capacitance vs. Reverse voltage



Non-repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature



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