



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



(Ta=25°C unless otherwise specified)

		Rating	
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	480	W
Peak pulse current ($t_p = 8/20\mu s$)	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	$I_{PP} = 1A, t_p = 8/20\mu s$			10
		V	$I_{PP} = 32A, t_p = 8/20\mu s$			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: $Z_0 = 50\Omega$, $t_p = 100ns$, $t_r = 2ns$, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

(2). Contact discharge mode, according to IEC61000-4-2.

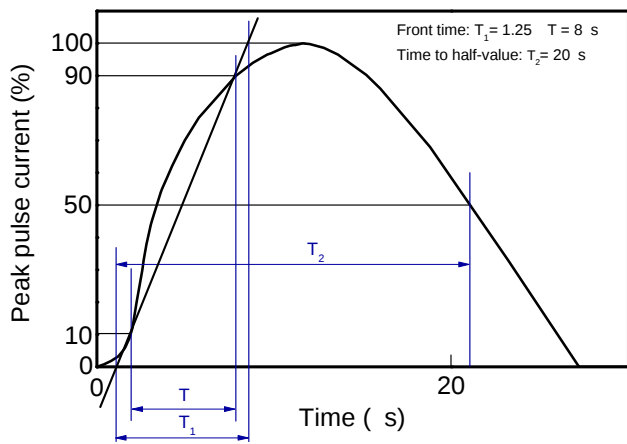
(3). Non-repetitive current pulse, according to IEC61000-4-5.

ESD7V0LA	Approximate 0.9	10000	100000	400000	Tae& reel



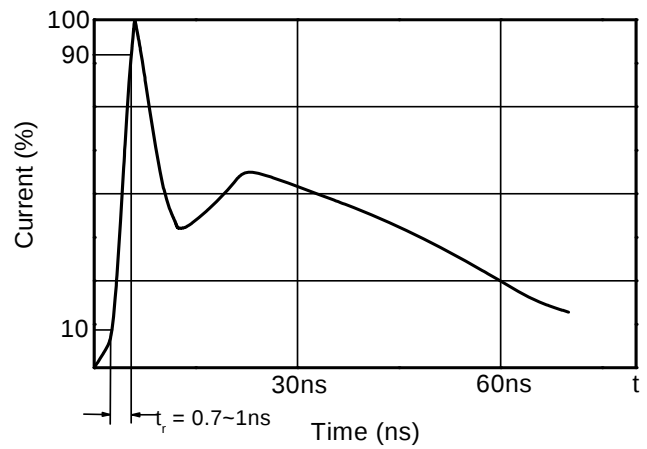
($T_a=25$ unless otherwise Specified)

8/20 μ s waveform per IEC61000-4-5

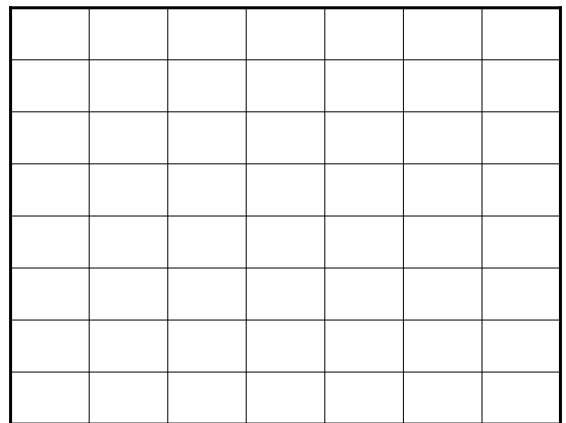


Clamping voltage vs. Peak pulse current

Contact discharge current waveform per IEC61000-4-2

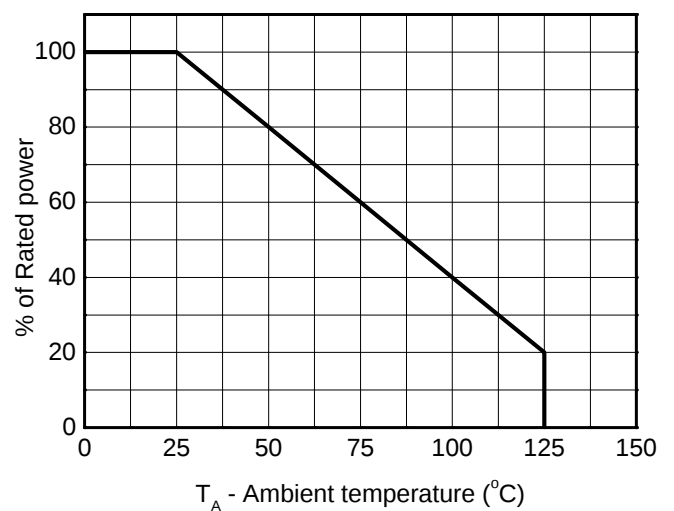


Capacitance vs. Reverse voltage



Non-repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature





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