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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 $\mu$ )



(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	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	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 <sup>1)</sup>	$V_{CL}$	V	$I_{PP} = 16A, t_p = 100ns$		9.0	
Dynamic resistance <sup>1)</sup>	$R_{DYN}$				0.3	
Clamping voltage <sup>2)</sup>	$V_{CL}$	V	$V_{ESD} = 8kV$		9.0	
Clamping voltage <sup>3)</sup>	$V_{CL}$	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:  $Z_0 = 50$  ,  $t_p = 100ns$ ,  $t_r = 2ns$ , averaging window from 60ns to 80ns.  $R_{DYN}$  is calculated from 4A to 16A.

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

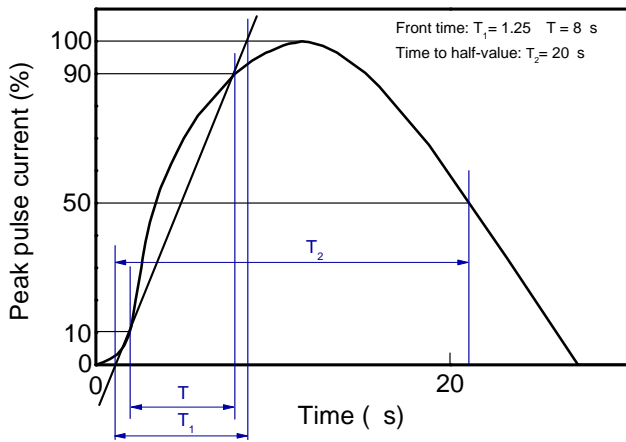
(3). Non-repetitive current pulse, according to IEC61000-4-5.

ESD7V0LA	Approximate 0.9	10000	100000	400000	Tae& reel



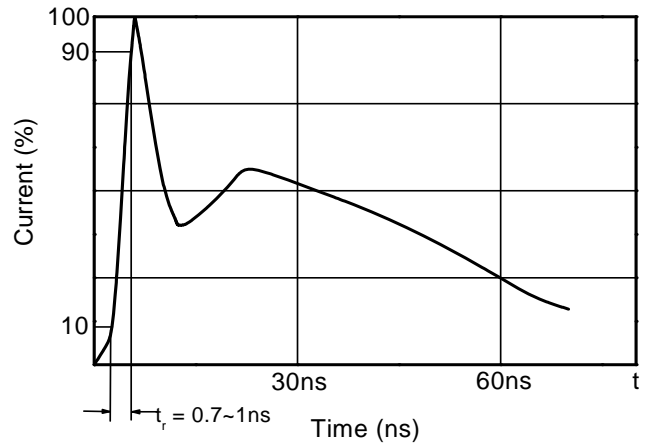
( $T_a=25$  unless otherwise Specified)

8/20 $\mu$ s waveform per IEC61000 4 5

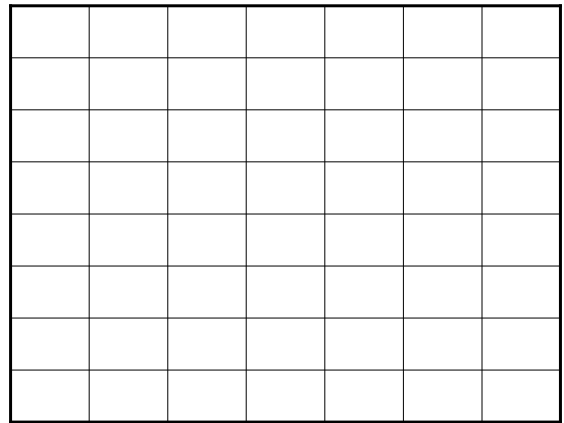


Clamping voltage vs. Peak pulse current

Contact discharge current waveform per IEC61000 4 2

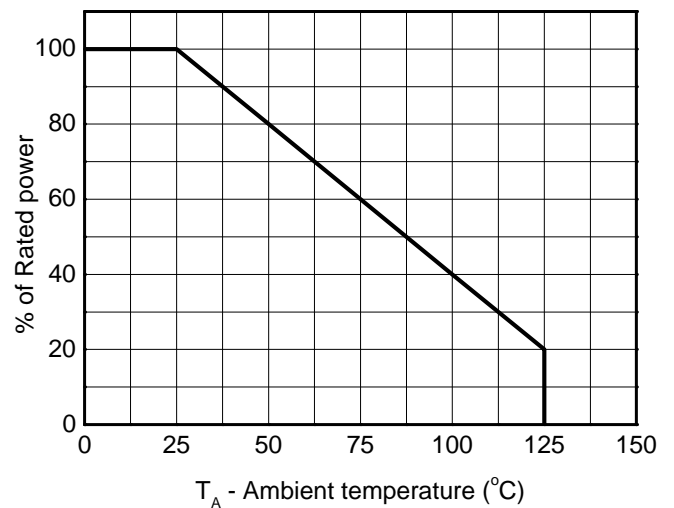


Capacitance vs. Reverse voltage



Non repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature





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