

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
IEC 61000-4-2 ESD Voltage	Air Model	± 30	kV
	Contact Model	± 30	
	Per Human Body Model	\pm	
	Machine Model	± 0.4	
JESD22-A114-B ESD Voltage	$V_{\text{ESD}}^{(1)}$		
ESD Voltage	$P_{\text{PP}}^{(2)}$		W
Peak Pulse Power	$I_{\text{PP}}^{(2)}$		A
Peak Pulse Current	T_L	260	$^{\circ}\text{C}$
Lead Solder Temperature – Maximum (10 Second Duration)	T_J, T_{stg}	-55 ~ +150	$^{\circ}\text{C}$
Operation Junction and Storage Temperature Range			

(1).Device stressed with ten non-repetitive ESD pulses.

(2).Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5.

ESD standards compliance

IEC61000-4-2 Standard

Contact Discharge		Air Discharge	
Level	Test Voltage kV	Level	Test Voltage kV
1	2	1	2
2	4	2	4
3	6	3	8
4	8	4	15

JESD22-A114-B Standard

ESD Class	Human Body Discharge V
0	0~249
1A	250~499
1B	500~999
1C	1000~1999
2	2000~3999
3A	4000~7999
3B	8000~15999



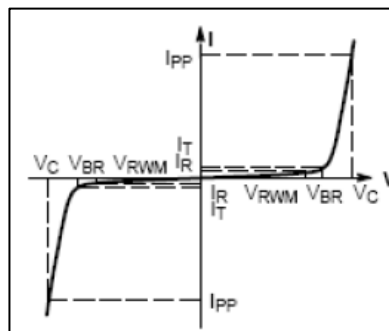
ESD pulse waveform according to IEC61000-4-2



8/20 μs pulse waveform according to IEC 61000-4-5

ELECTRICAL PARAMETER

Symbol	Parameter
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Peak Pulse Current
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_R	Reverse Leakage Current @ V_{RWM}
V_{RWM}	Reverse Standoff Voltage



V-I characteristics for a Bi-directional TVS

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse stand off voltage	$V_{RWM}^{(1)}$			3.3		V
Reverse leakage current	I_R	$V_{RWM}=5V$			1	μA
Breakdown voltage	$V_{(BR)}$	$I_T=1mA$	3.4		7.0	V
Clamping voltage	$V_C^{(2)}$	$I_{PP}=9A$		8.8	15	V
Junction capacitance	C_J	$V_R=0V, f=1MHz$		16		pF

(1).Other voltages available upon request.

(2).Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5

TYPICAL CHARACTERISTICS

