

Absolute Maximum Ratings (T_a=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
IEC 61000-4-2 ESD Voltage	Air Model	±30	kV
IEC 61000-4-2 ESD Voltage	Contact Model	±30	
JESD22-A114-B ESD Voltage	Per Human Body Model	±16	
ESD Voltage	Machine Model	±0.4	
Peak Pulse Power	P _{pp} ²⁾	000	W
Peak Pulse Current	I _{pp} ²⁾	2	A
/HDG 6ROGHU 7HPSHUDWXUH i 0D[LPXP 6H	T _L	260	°C
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~ +150	°C

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

2) Non-UHSHWLWLYH FXUUHQW SXOVH V H[SRQHQLDLO GHFD\ ZDYHIRUP DFFRUG

ESD standards compliance

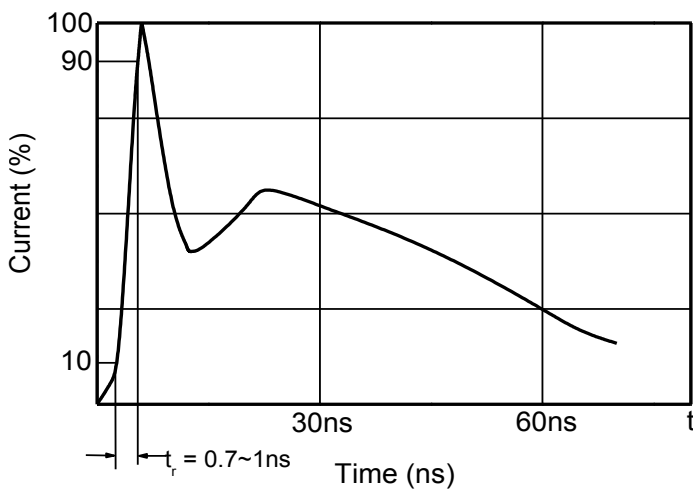
IEC61000-4-2 Standard

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

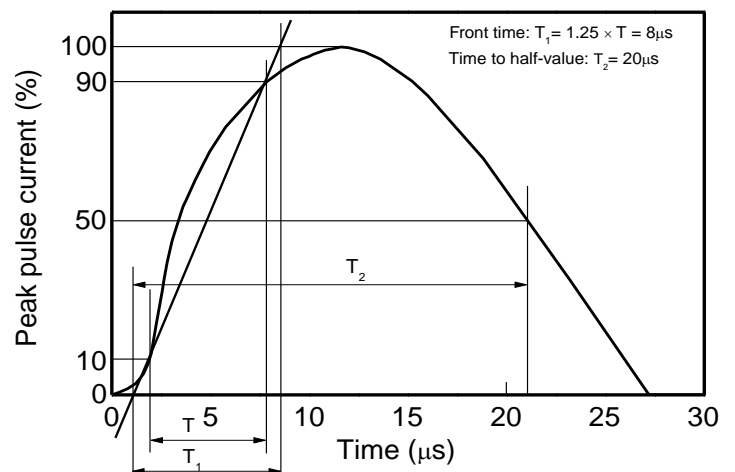
JESD22-A114-B Standard

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

Contact discharge current waveform per IEC61000-4-2

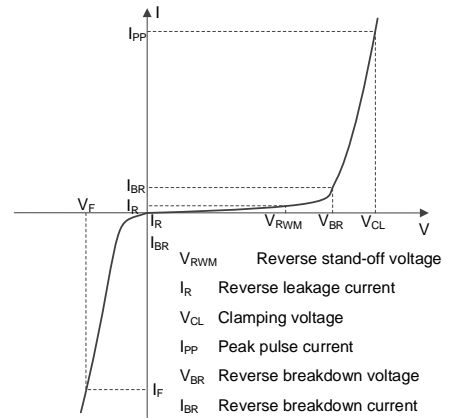


8/20µs waveform per IEC61000-4-5



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 Uni-directional TVS

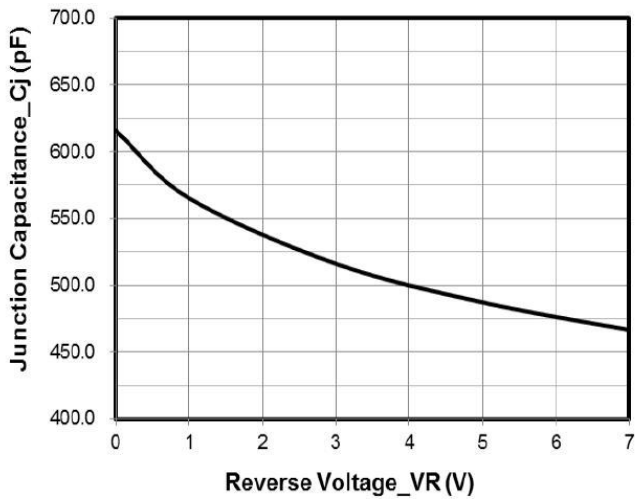
Electrical Characteristics (Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse stand-off voltage	V _{RWM} ¹⁾					V
Reverse leakage current	I _R	V _{RWM} = V			1	uA
Breakdown voltage	V _{BR}	I _T =1mA				V
Clamping voltage	V _C ²⁾	I _{PP} =2 A				V
Junction capacitance	C _J	V _R =0V, f=1MHz				pF

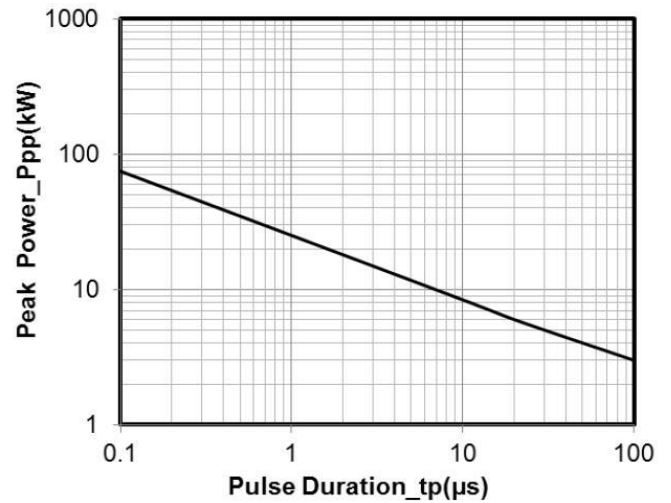
1) Other voltages available upon request.

2) Non-repetitive current pulse V H [SRQHQLDO GHFD\ ZDYHIRU4F5 DFFRUGLQJ WR , (&

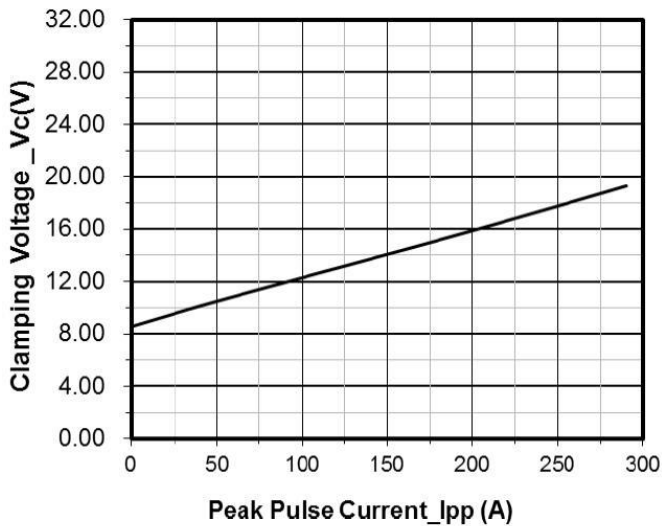
Typical Characteristics



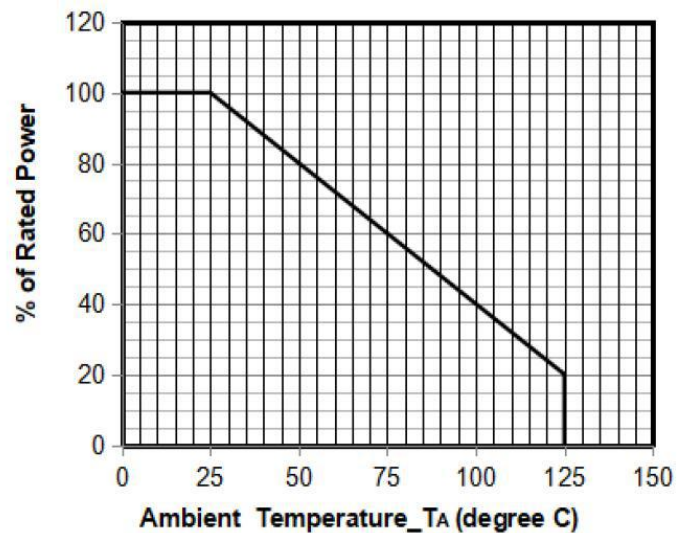
Novction Capacitance vs. Reverse Voltage



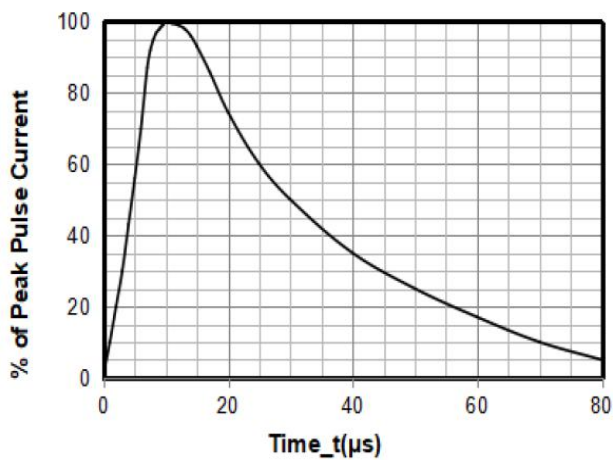
Peak Pulse Power vs. Pulse Time



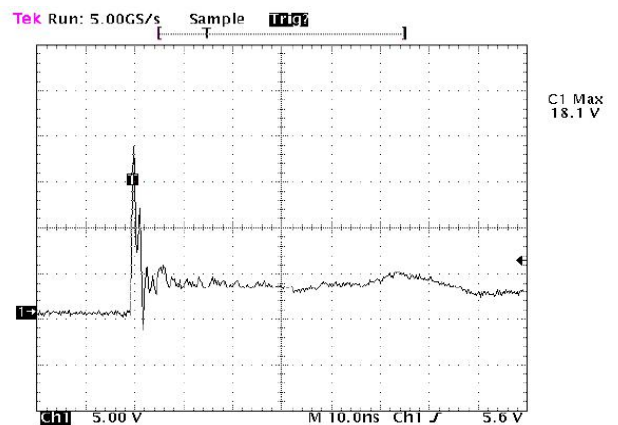
Clamping Voltage vs. Peak Pulse Current



Power Derating Curve



8 X 20μs Pulse Waveform



Note: Data is taken with a 10x attenuator

ESD Clamping Voltage

8 kV Contact per IEC61000-4-2

