

Features

- ◆ 150W (8x20us) PeakPulse Power
- ◆ Low Clamping Voltage
- ◆ SOD-323 Package
- ◆ RoHS Compliant
- ◆ MatteT in Lead finish (Pb-Free)
- ◆ Protect Onel/O or Power Line
- ◆ Meet IEC61000-4-2Level4:



PIN Diagram

Contact Discharge>30kV
 Air Discharge>30 kV



Applications

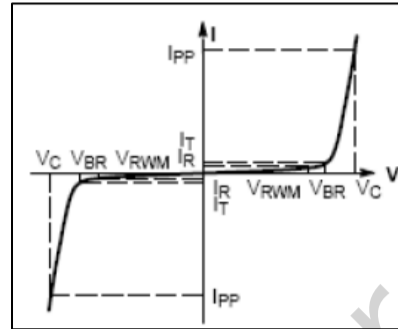
- ◆ SmartPhones
- ◆ LaptopComputers
- ◆ PortableElectronics

Circuit Diagram

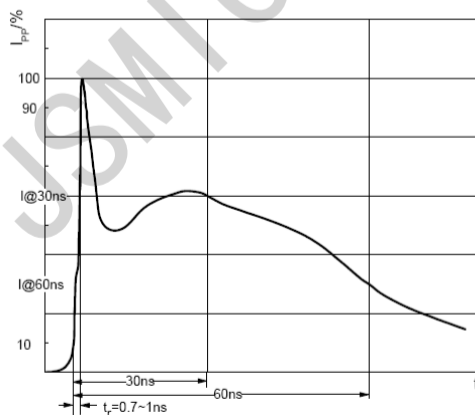
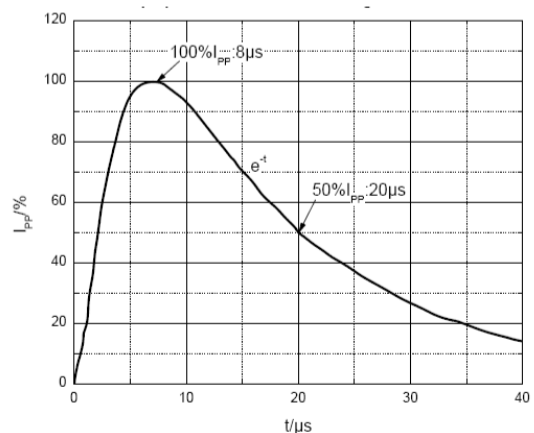
Maximum Ratings(Ta=25°C)

Symbol	Parameter	Value	Unit
TJ	JunctionTemperature	-55to+150	°C
TSTG	StorageTemperature	-55to+150	°C
IppMax	MaximumPeakPulseCurrent	10	A
PPK	PeakPulsePower	150	W

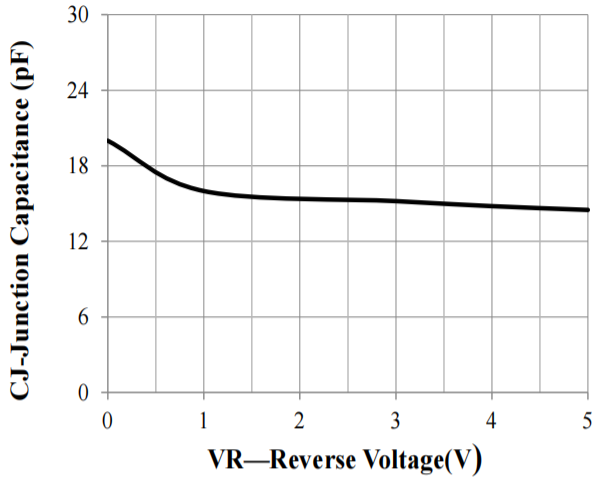
Symbol	Parameter
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Peak Pulse Current
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_R	Reverse Leakage Current @ V_{RWM}
V_{RWM}	Reverse Standoff Voltage


V-I characteristics for a Bi-directional TVS
Electrical Characteristics (Ta = 25°C)

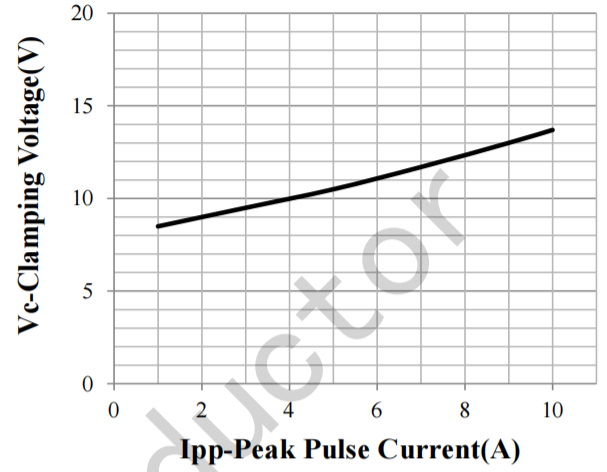
PESD3D5C						
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				5.0	V
VBR	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	6.2	7	8.5	V
IR	Reverse Leakage Current	$V_{RWM} = 5.0\text{V}$			1	μA
VC	Clamping Voltage	$I_{PP} = 1\text{A} (8/20\mu\text{s})$			9	V
VC	Clamping Voltage	$I_{PP} = 10\text{A} (8/20\mu\text{s})$			15	V
Ipp	Peak Pulse Current	$t_p = 8/20\mu\text{s}$			10	A
CJ	Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$		25		pF


ESD pulse waveform according to IEC61000-4-2

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

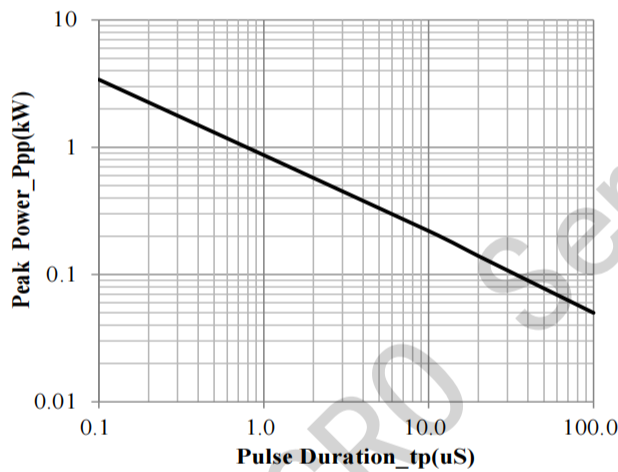
Typical Performance Characteristics (TA =25°C unless otherwise Specified)



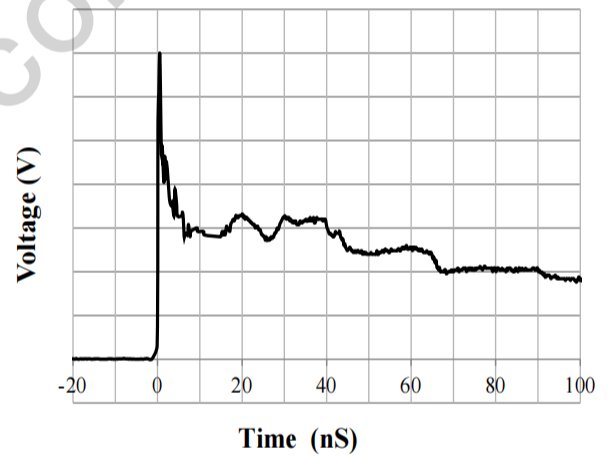
Junction Capacitance vs. Reverse Voltage



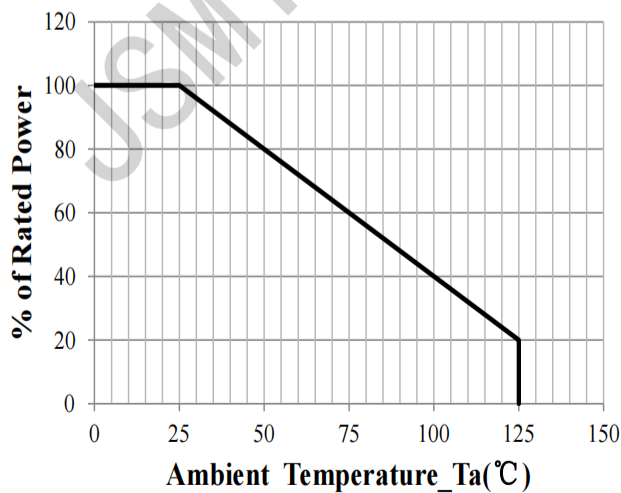
Clamping Voltage vs. Peak Pulse Current



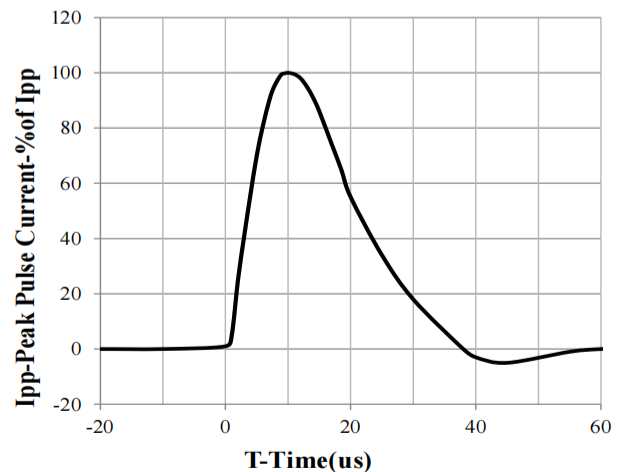
Peak Pulse Power vs. Pulse Time



IEC61000-4-2 Pulse Waveform

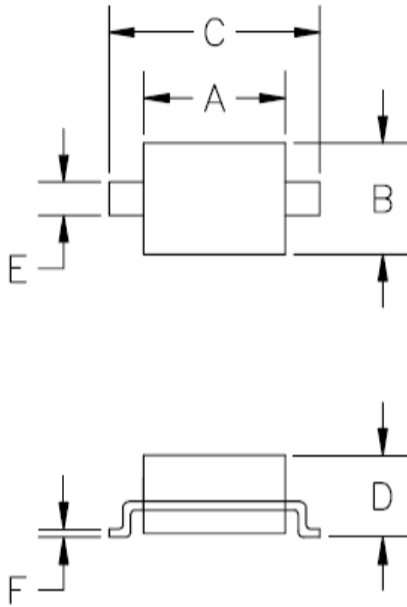


Power Derating Curve



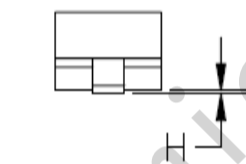
8 X 20us Pulse Waveform

SOD-323 Dimension



DIM ^N	INCHES		MM [1]		NOTE
	MIN	MAX	MIN	MAX	
A	.060	.071	1.5	1.8	-
B	.045	.054	1.2	1.4	-
C	.090	.107	2.3	2.7	-
D	-	.043	-	1.1	-
E	.012	.016	0.3	0.4	-
F	.004	.010	.10	.25	-
H	-	.004	-	.10	-

[1] CONTROLLING DIMENSION: MILLIMETERS



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