

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:

Contact Discharge>30kV Air Discharge>30 kV



PIN Diagram

Applications

- SmartPhones
- LaptopComputers
- ◆ PortableElectronics



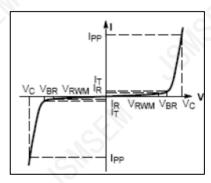
Circuit Diagram

Maximum Ratings(Ta=25°C)

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

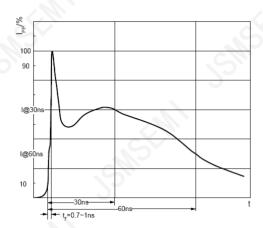


Symbol	Parameter		
Vc	Clamping Voltage @ I _{PP}		
I _{PP}	Peak Pulse Current		
V _{BR}	Breakdown Voltage @ I _T		
lτ	Test Current		
I _R	Reverse Leakage Current @ V _{RWM}		
V _{RWM}	Reverse Standoff Voltage		

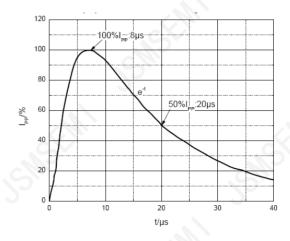


V-I characteristics for a Bi-directional TVS

Electrical Characteristics(Ta=25°C)							
Symbol	Parameter	Conditions	Min	Тур	Max	Unit	
VRWM	Reverse Working Peak Voltage				5.0	V	
VBR	Reverse Breakdown Voltage	IT = 1mA	6.2	7	8.5	V	
IR	Reverse Leakage Current	VRWM = 5 . 0 V		by	1	μA	
VC	Clamping Voltage	IPP = 1 A $(8/20 \mu s)$	25		9	V	
VC	Clamping Voltage)IPP = 1 0 A (8/20			15	V	
Ipp	Peak Pulse Current	μs) 'tp = 8/20 μs			10	A	
CJ	Capacitance	VR = 0V, $f = 1MHz$		25	(6)	pF	



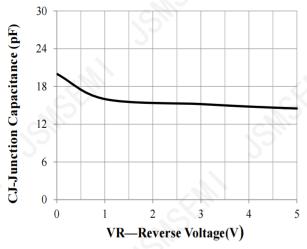




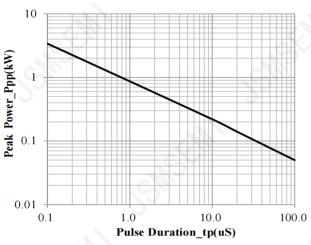
8/20µs pulse waveform according to IEC 61000-4-5



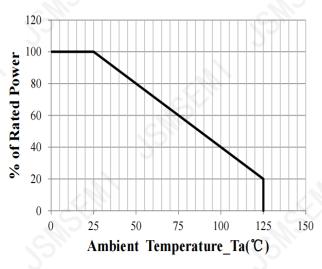
Typical Performance Characteristics (TA =25°C unless otherwise Specified)



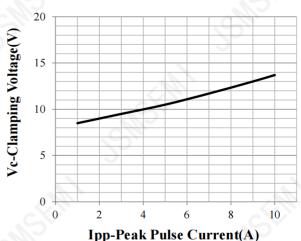
Junction Capacitance vs. Reverse Voltage



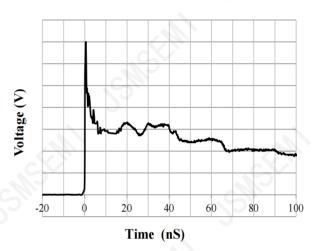
Peak Pulse Power vs. Pulse Time



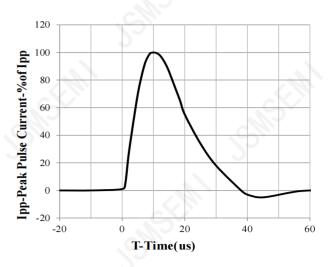
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



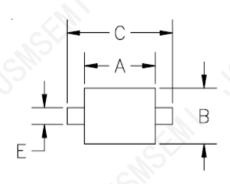
IEC61000-4-2 Pulse Waveform

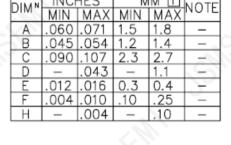


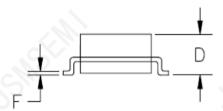
8 X 20us Pulse Waveform

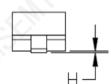


SOD-323 Dimension









1 CONTROLLING DIMENSION: MILLIMETERS



Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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