

Features

- For Sensitive ESD Protection
- Ultra Low Clamping Voltage
- Low Leakage Current
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

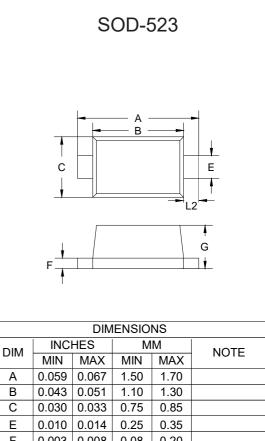
IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	Ррк	180W	
Peak Pulse Current (8/20µs) ^(Note 2)	IPP	18A	
Operating Junction Temperature Range	Тј	-45°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

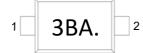


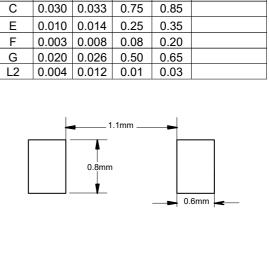




Marking Code



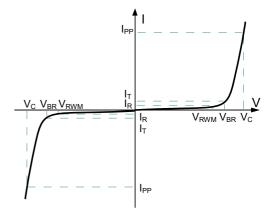






ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I⊤		
IT	Test Current		
С	Capacitance $@V_R=0$ and f =1MHz		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

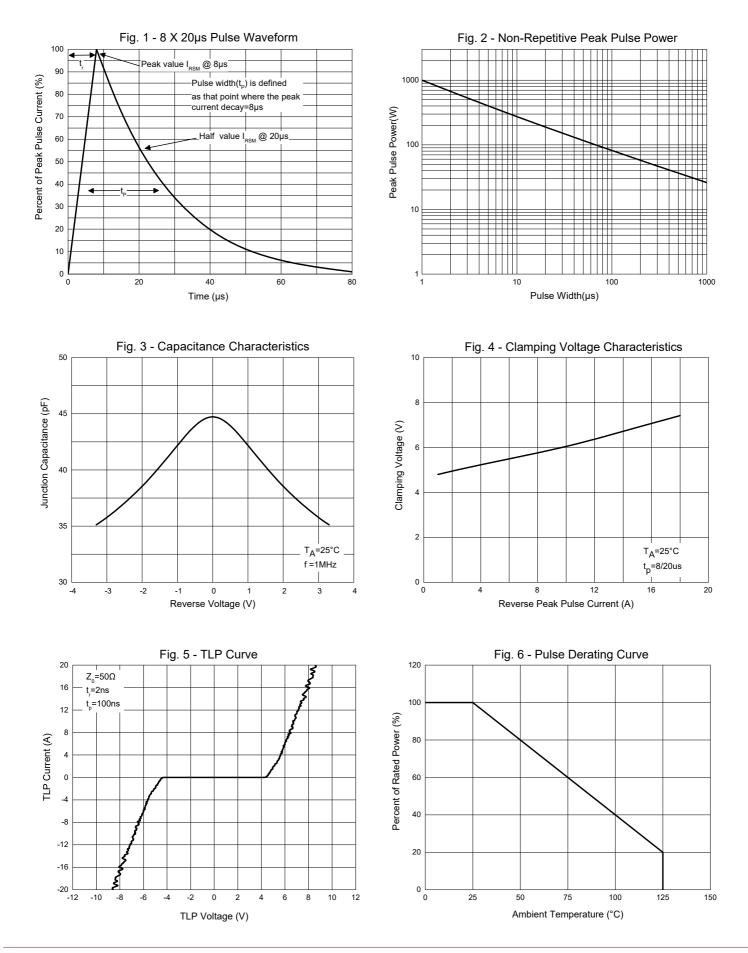
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	3.7		6.0	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.5	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			6	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =10A, t _P =8/20μs			8	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =18A, t _P =8/20μs			10	V
Junction Capacitance	CJ	V _R = 0V, f=1MHz		45	60	pF
Clamping Voltage ^{Note2}	Vc	I _{PP} =16A, t _P =100ns			9	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.28		Ω

Note:

1. Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2. TLP parameter: Z₀=50 Ω , t_p=100ns, t_r=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.



Curve Characteristics





Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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