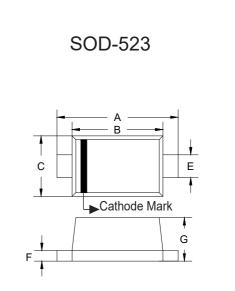


## **Features**

- AEC-Q101 Qualified
- Low Leakage
- Ultra Low Clamping Voltage •
- Moisture Sensitivity Level 1 •
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1) ٠
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)





## **Maximum Ratings**

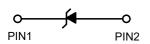
IEC61000-4-2(ESD)	Air	±30KV		
	Contact	±30KV		
Peak Pulse Power (8/20µs)	Ррк	300W		
Peak Pulse Current (8/20µs) <sup>(Note 2)</sup>	IPP	7A		
Operating Junction Temperature Range	Тј	-55°C to +150°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine

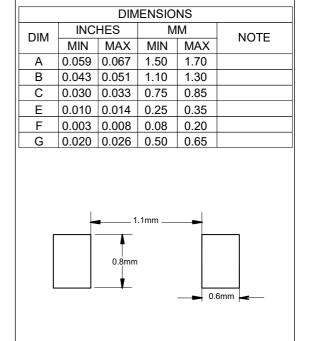
(<1500ppm total Br + Cl) and <1000ppm antimony compounds. 2.Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

#### **Internal Structure**



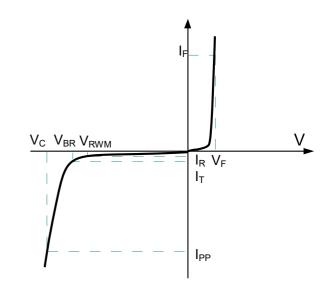
### **Marking Code**







Symbol	Parameter		
VRWM	Peak Reverse Working Voltage		
IR	Reverse Leakage Current @ VRWM		
VBR	Breakdown Voltage @ IT		
IT	Test Current		
IPP	Maximum Reverse Peak Pulse Current		
VC	Clamping Voltage @ IPP		
PPP	Peak Pulse Power		
CJ	Junction Capacitance		
lF	Forward Current		
VF	Forward Voltage @ IF		



## Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				24	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	26.7			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =24V			1.0	μA
Clamping Voltage <sup>Note1</sup>	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			32	V
Clamping Voltage <sup>Note1</sup>	V <sub>c</sub>	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs			42	V
Clamping Voltage <sup>Note1</sup>	Vc	I <sub>PP</sub> =7A, t <sub>P</sub> =8/20μs			44	V
Dynamic Resistance Note2	R <sub>DYN</sub>	TLP, t <sub>P</sub> =100ns		0.36		Ω
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		36	50	pF

Note:

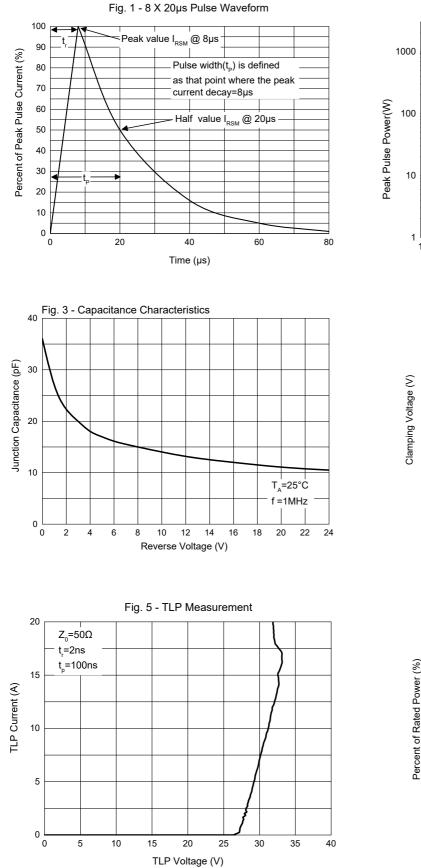
1.Non-repetitive current pulse, according to IEC61000-4-5.

2.TLP parameter: Z<sub>0</sub>=50Ω, t<sub>p</sub>=100ns, t<sub>r</sub>=2ns, averaging window from 60ns to 80ns. R<sub>DYN</sub> is calculated from 4A to 16A.





# **Curve Characteristics**



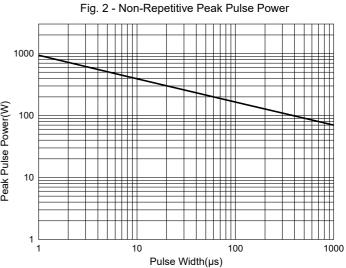
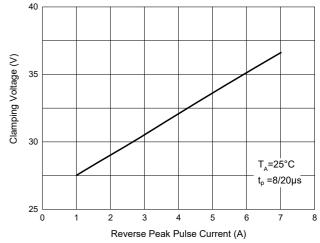
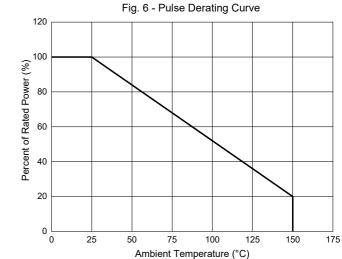


Fig. 4 - Clamping Voltage Characteristics







## **Ordering Information**

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

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