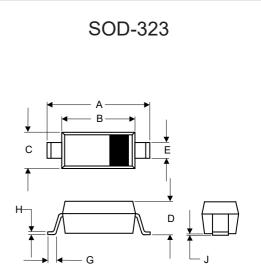


# Features

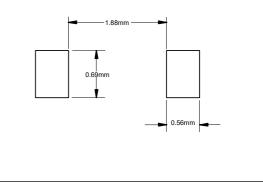
- AEC-Q101 Qualified
- Protects One Data or Power Line
- Low Leakage
- Ultra Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)





	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	0.045	0.053	1.15	1.35		
D	0.031	0.045	0.80	1.15		
E	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

#### Suggested Solder Pad Layout



## **Maximum Ratings**

	Air	±30KV		
IEC61000-4-2(ESD)	Contact	±30KV		
Peak Pulse Power (8/20µs)	Ррк	350W		
Peak Pulse Current (8/20µs)(Note 2)	IPP	5A		
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.

### **Marking Information**

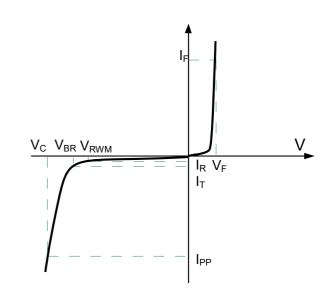








Symbol	Parameter
Oymbol	I didilletei
VRWM	Peak Reverse Working Voltage
IR	Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
ΙΤ	Test Current
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
Ppp	Peak Pulse Power
CJ	Junction Capacitance
lF	Forward Current
VF	Forward Voltage @ IF



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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				36	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	40		44	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =36V			1.0	μA
Clamping Voltage <sup>Note1</sup>	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			55	V
Clamping Voltage <sup>Note1</sup>	V <sub>c</sub>	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs			75	V
Dynamic Resistance Note2	R <sub>DYN</sub>	TLP, t <sub>P</sub> =100ns		0.8		Ω
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		24	35	pF

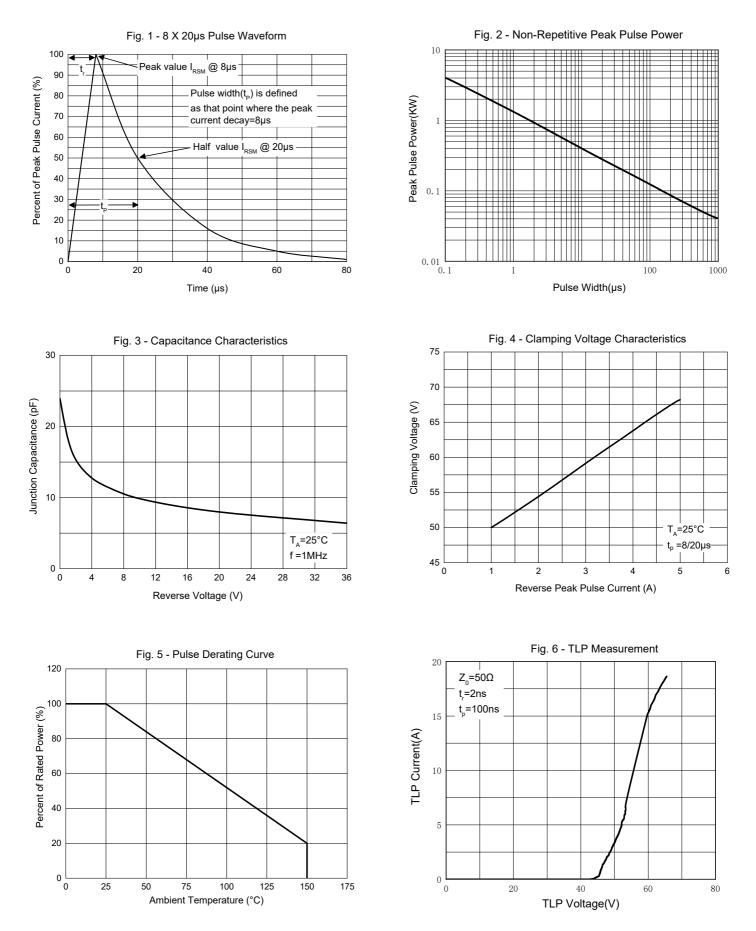
Note:

1.Non-repetitive current pulse, according to IEC61000-4-5. 2. I/O to Ground, TLP parameter:  $Z_0=50\Omega$ ,  $t_p=100$ ns,  $t_r=2$ ns, averaging window from 60ns to 80ns.  $R_{DYN}$  is calculated from 4A to 16A.





# **Curve Characteristics**





# **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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