

Features

- AEC-Q101 Qualified
- Protects One Data or Power Line
- Low Leakage
- 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)

Protection Device

Maximum Ratings

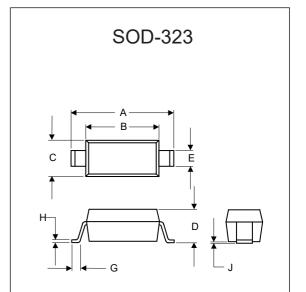
IEC61000-4-2(ESD)	Air	±30KV	
12001000-4-2(23D)	Contact	±30KV	
Peak Pulse Power (8/20µs)	PPK	260W	
Peak Pulse Current (8/20µs)(Note 2)	lpp	4A	
Operating Junction Temperature Range	TJ	-55°C to +150°C	
Storage Temperature Range	T _{STG}	-55°C to +150°C	

Internal Structure

Marking Code



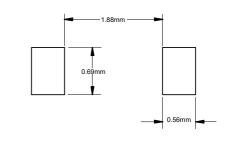




ESD

DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

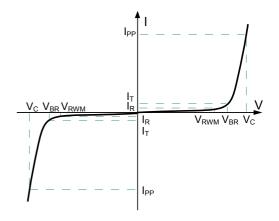


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + CI) and <1000ppm antimony compounds.

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



Symbol	Parameter	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ I _{PP}	
V_{RWM}	Working Peak Reverse Voltage	
I _R	Maximum Reverse Leakage Current @ V _{RWM}	
V_{BR}	Breakdown Voltage @ I _T	
I _T	Test Current	
С	Capacitance @V _R =0 and f =1MHz	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

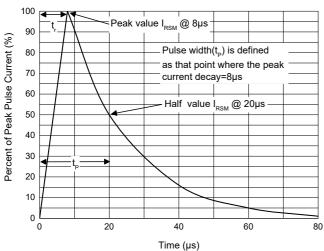
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				27	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	28.5			V
Reverse Leakage Current	I _R	V _{RWM} =27V			0.5	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		44	50	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =4A, t _P =8/20μs		60	65	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.56		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		15	20	pF

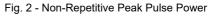
^{1.}Non-repetitive current pulse, according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.



Curve Characteristics

Fig. 1 - 8 X 20µs Pulse Waveform





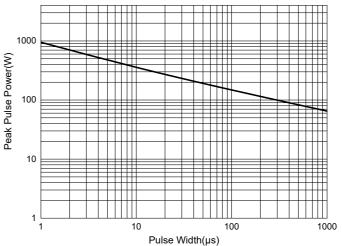


Fig. 3 - Capacitance Characteristics

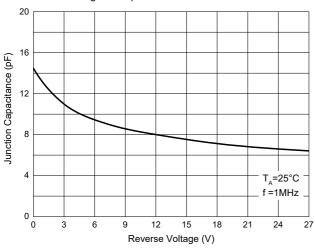


Fig. 4 - Clamping Voltage Characteristics

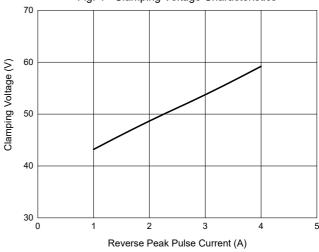


Fig. 5 - TLP Measurement

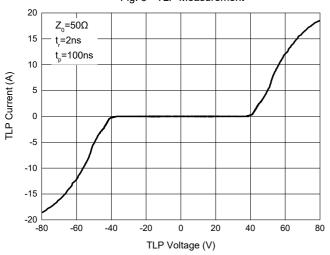
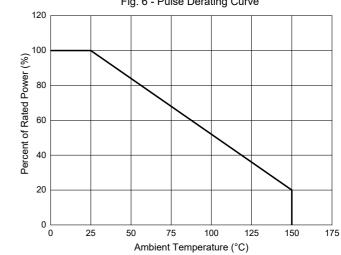


Fig. 6 - Pulse Derating Curve





Ordering Information

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

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