

Features

- Protects One Power or I/O Port
- Low Clamping Voltage
- Low Leakage
- 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)

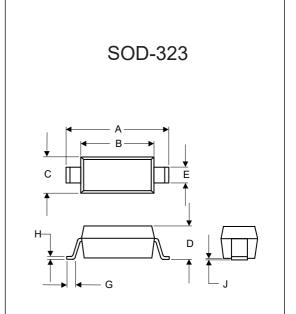
ESD Protection Device

Maximum Ratings

IEC61000-4-2(ESD)	Air	±25KV	
12001000 12(200)	Contact	±25KV	
Peak Pulse Power (8/20µs)	PPK	360W	
Peak Pulse Current (8/20µs)(Note 2)	lpp	30A	
Operating Junction Temperature Range	TJ	-55°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

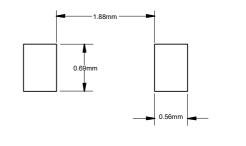
^{2.}Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.



DIMENSIONS					
DIM	INCHES		MM		NOTE
ואווט	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	

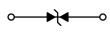


Suggested Solder Pad Layout



Internal Structure

Marking Code

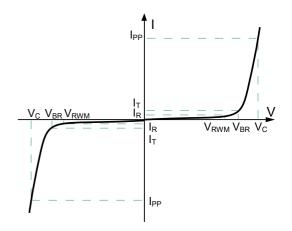




^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	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		



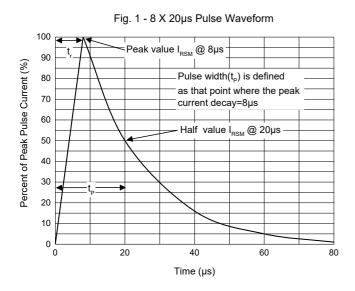
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

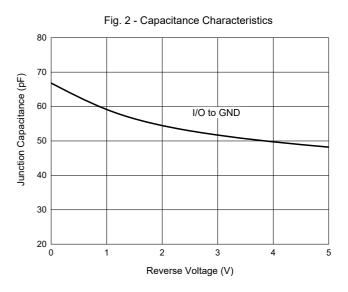
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.5		8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20µs		8	10	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =30A, t _P =8/20μs		9	12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		65	80	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.9		Ω

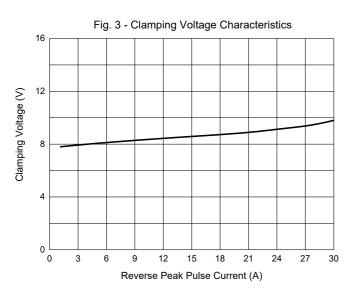
Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.
TLP parameter: Z₀=50Ω, t_p=100ns, t_r=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

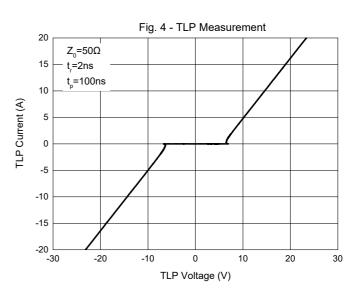


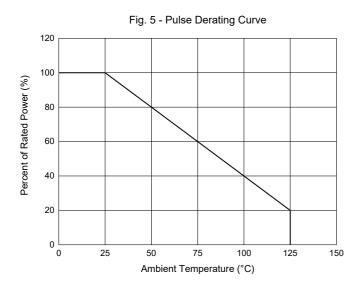
Curve Characteristics













Ordering Information

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

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