

Features

- For Sensitive ESD Protection
- Excellent Clamping Capability
- Low Leakage
- Fast Response, Response Time Less than 1ns
- 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

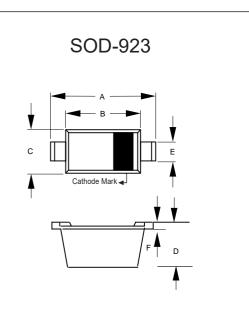
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESD12VD9	C

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
JESD22-A114-B(ESD)	Human Body	16KV
Peak Pulse Power (8/20us)	Р _{РК}	100W

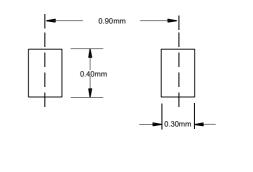
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.





DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.037	0.041	0.95	1.05	
В	0.030	0.033	0.75	0.85	
С	0.022	0.026	0.55	0.65	
D	0.014	0.017	0.36	0.43	
E	0.006	0.010	0.15	0.25	
F	0.003	0.007	0.07	0.17	

Suggested Solder Pad Layout



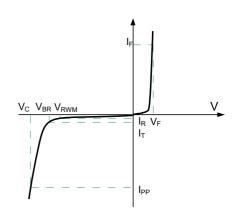
Internal Structure

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

Symbol	Parameter		
V _{RWM}	Peak Reverse Working Voltage		
I _R	Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I _⊺		
IT	Test Current		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
P _{PP}	Peak Pulse Power		
CJ	Junction Capacitance		
I _F	Forward Current		
V _F	Forward Voltage @ I _F		

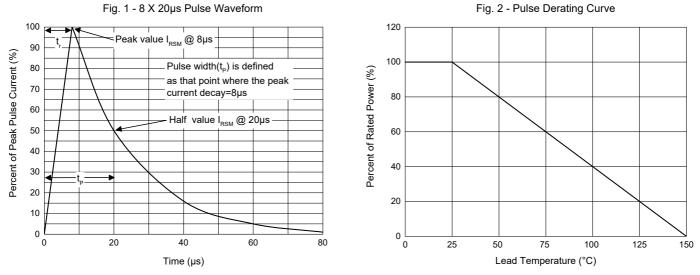


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				12	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	13.5			V
Reverse Leakage Current	I _R	V _{RWM} =12V			1	μA
Forward Voltage	V _F	I _F = 10mA		0.8		V
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			18.4	V
Junction Capacitance	CJ	V _R = 2.5V, f = 1MHz		15		pF



Curve Characteristics





Ordering Information

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

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