

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 Available Upon Request By Adding Suffix "-HF"
- 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

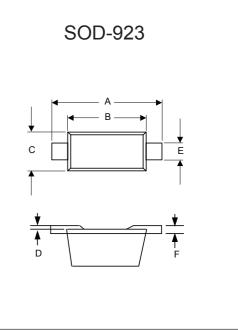
MCC Part Number	Device Marking
ESD5V0D9B	9C

IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV		
JESD22-A114-B(ESD)	Human Body	16KV		

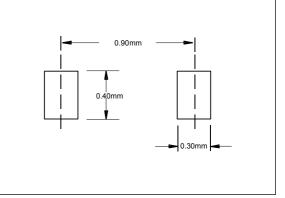
Internal Structure







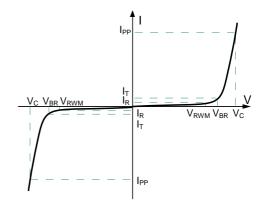
DIMENSIONS					
		HES M		М	NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
A	0.037	0.041	0.95	1.05	
В	0.030	0.033	0.75	0.85	
С	0.022	0.026	0.55	0.65	
D	0.014	0.017	0.36	0.43	
E	0.006	0.010	0.15	0.25	
F	0.003	0.007	0.07	0.17	





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

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

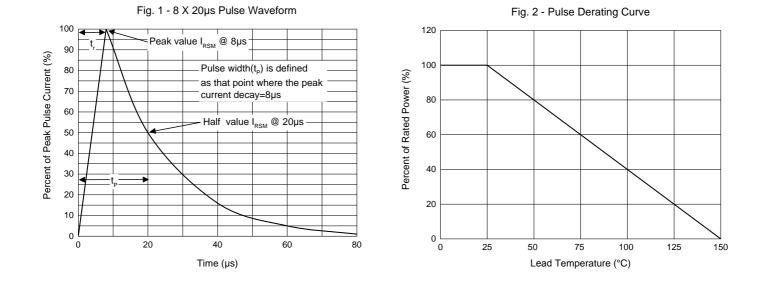


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	5.6	6.7	7.8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			9	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs			11	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		15		pF



Curve Characteristics





Ordering Information

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

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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