

Features

- For Sensitive ESD Protection
- Excellent Clamping Capability
- Low Leakage
- For Space Saving Application
- 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

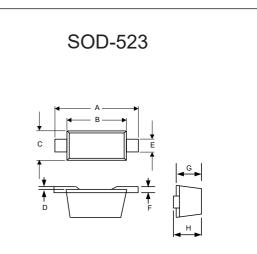
MCC Part Number	Device Marking
ESD5V0D5B	В5

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
JESD22-A114-B(ESD)	Machine Human Body	±0.4KV ±16KV	
Peak Pulse Current(8/20µs)	I _{PP}	12A	
Peak Pulse Power (8/20us)	Р _{РК}	150W	

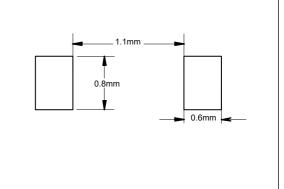
Internal Structure

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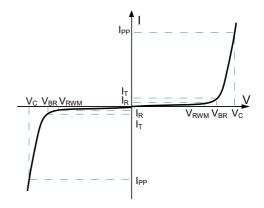
	DIMENSIONS				
DIM INCHES		HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.000	0.003	0.00	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.008	0.08	0.20	
G	0.020	0.026	0.50	0.65	
Н	0.020	0.026	0.50	0.65	





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

Symbol	Parameter		
IPP	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		
Ι _Τ	Test Current		
С	Capacitance $@V_R=0$ and f =1MHz		

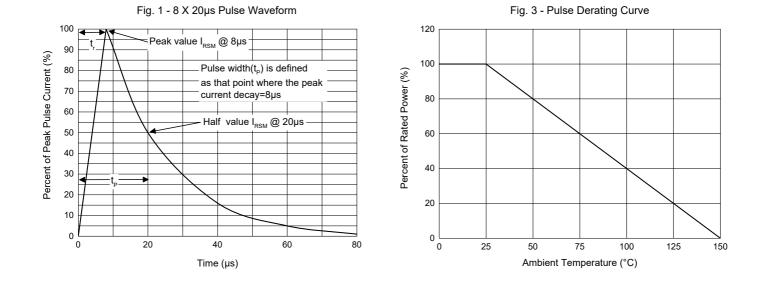


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	5.8		8.8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Reverse Leakage Current	I _R	V _{RWM} =3.6V, T _A =50°C			10	nA
Clamping Voltage	V _c	I _{PP} =5A, t _P =8/20μs			9.5	V
Clamping Voltage	V _c	I _{PP} =12A, t _P =8/20μs			13	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		27		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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