

Features

- For Sensitive ESD Protection
- Ultra Low Clamping Voltage
- Low Operating Voltage
- 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)

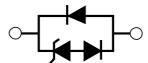
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

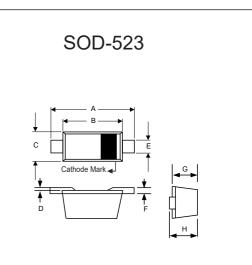
MCC Part Number	Device Marking
ESDSLC5V0D5	5Y
ESDSLC5V0D5	5Y

IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV	
Peak Pulse Current(8/20µs)	I _{PP}	5A	
Peak Pulse Power (8/20us)	P _{PK}	80W	

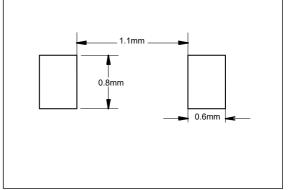
Internal Structure







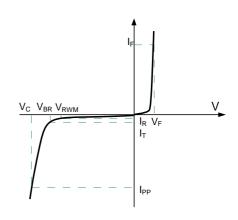
	DIMENSIONS				
		HES	MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.001	0.003	0.01	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.028	0.50	0.70	
Н	0.020	0.031	0.51	0.77	





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 _T		
Ι _Τ	Test Current		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
P _{PP}	Peak Pulse Power		
CJ	Junction Capacitance		
١ _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}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V		0.01	0.5	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			16	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		0.5	0.7	pF



Curve Characteristics

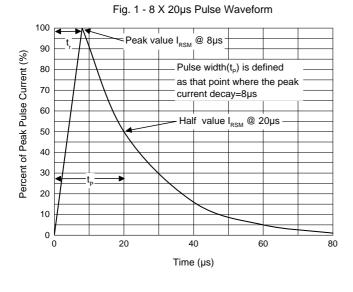


Fig. 3 - Capacitance Characteristics

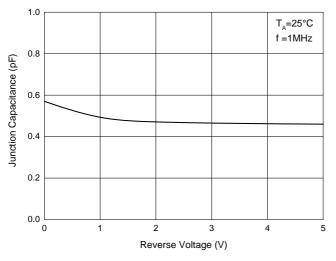
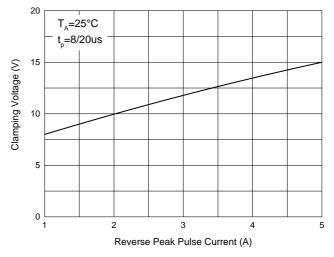


Fig. 2 - Pulse Derating Curve

Fig. 4 - Clamping Voltage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 8Kpcs/Reel		
Part Number-T3P	Tape&Reel: 3Kpcs/Reel		

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

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