

Features

- · For Sensitive ESD Protection
- · Ultra Low Clamping Voltage
- · Low Leakage
- 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)

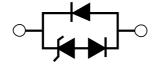
Maximum Ratings

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

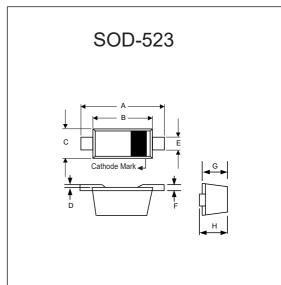
MCC Part Number	Device Marking
ESDLC3V3D5	3D

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20μs)	I _{PP}	11A	
Peak Pulse Power (8/20us)	P _{PK}	155W	

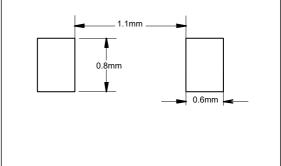
Internal Structure



ESD Protection Device



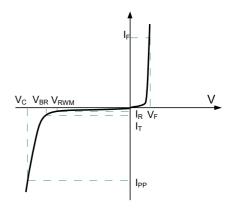
DIMENSIONS						
DIM	INCHES		MM		NOTE	
MIN		MAX	MIN	MAX	NOIL	
Α	0.059	0.067	1.50	1.70		
В	0.043	0.051	1.10	1.30		
С	0.030	0.033	0.75	0.85		
D	0.000	0.003	0.00	0.07		
Е	0.010	0.014	0.25	0.35		
F	0.003	0.008	0.08	0.20		
G	0.020	0.026	0.50	0.65		
Η	0.020	0.026	0.50	0.65		





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		
lτ	Test Current		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
P _{PP}	Peak Pulse Power		
CJ	Junction Capacitance		
I _F	Forward Current		
V _F	Forward Voltage @ I _F		

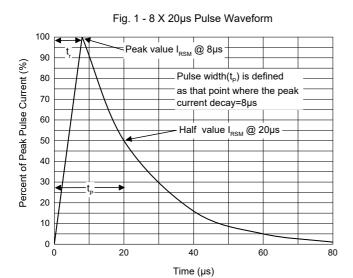


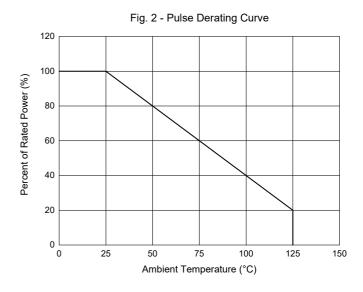
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

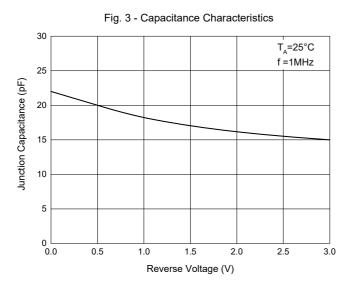
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T = 2μA	3.5			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			7.5	V
Clamping Voltage	V _C	I _{PP} =11A, t _P =8/20μs			14.5	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		20	25	pF
Junction Capacitance	CJ	V _R = 3.3V, f = 1MHz		12		pF

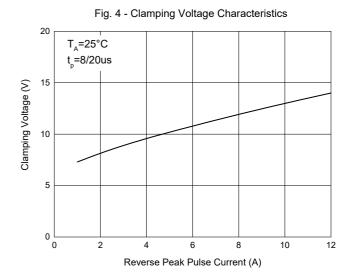


Curve Characteristics











Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel8Kpcs/Reel		

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

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Rev.3-2-08262019 4/4 MCCSEMI.COM