

Features

- · Low Reverse Clamping Voltage
- · Low Leakage
- 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 Rang: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDH3V0D5B	B3

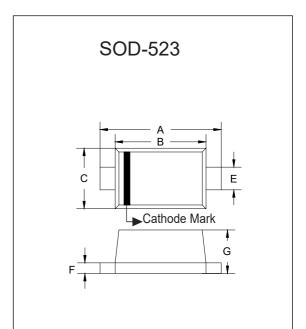
IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV
JESD22-A114-B(ESD)	Machine Human Body	±0.4KV ±16KV
Peak Pulse Current(8/20μs)	I _{PP}	25A
Peak Pulse Power (8/20us)	P _{PK}	325W

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

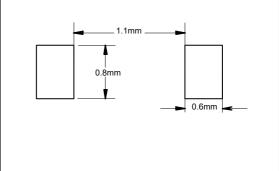
Internal Structure



ESD Protection Device



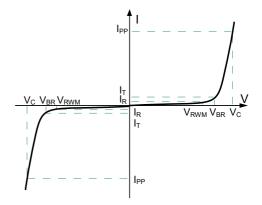
DIMENSIONS						
DIM	INC	HES	HES M		NOTE	
ווווט	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.043	0.051	1.10	1.30		
С	0.030	0.033	0.75	0.85		
Е	0.010	0.014	0.25	0.35		
F	0.003	800.0	0.08	0.20		
G	0.020	0.026	0.50	0.65		





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

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

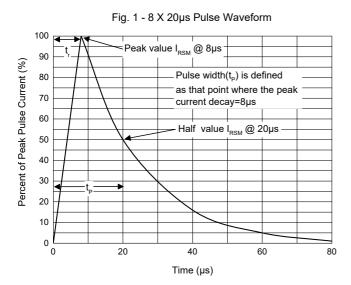


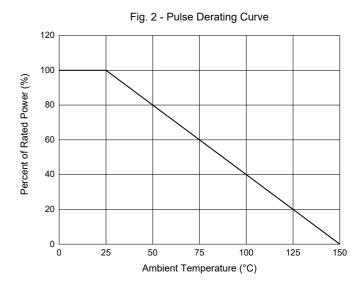
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

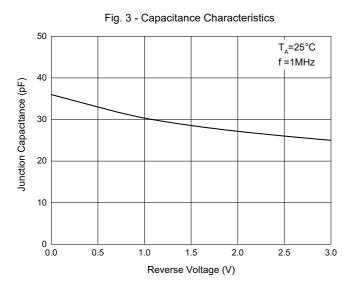
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	3.8		6	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			1	μΑ
Clamping Voltage	V _C	I _{PP} =25A, t _P =8/20μs			13	V
Junction Capacitance	С	$V_R = 0V$, $f = 1MHz$		36		pF

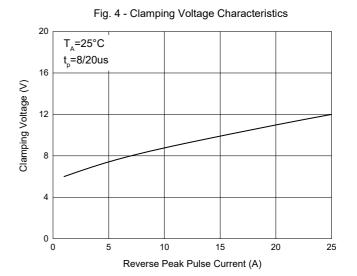


Curve Characteristics











Ordering Information

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

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Rev.3-4-12012020 4/4 MCCSEMI.COM