

Features

- · AEC-Q101 Qualified
- · Protects One Data or Power Line
- · Low Leakage
- Ultra Low Clamping Voltage
- · 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 Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESD15VD3BHE3	15B.		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Power (8/20µs)	P _{PK}	250W

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

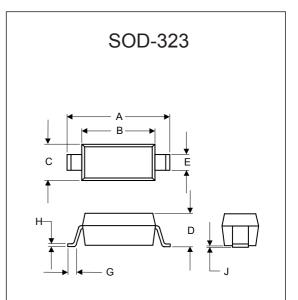
Marking Information



Internal Structure

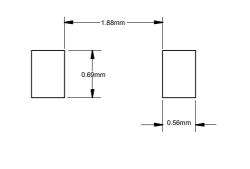


ESD Protection Device



DIMENSIONS					
DIM INCI		HES MM		NOTE	
ווועו	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

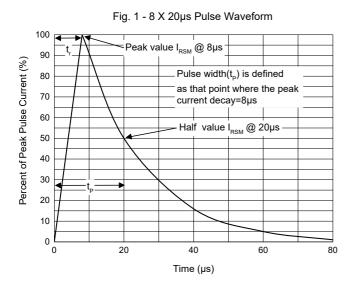
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				15	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	16.7			V
Reverse Leakage Current	I _R	V _{RWM} =15V			1.0	μA
Peak Pulse Current	I _{PP}	t _P =8/20µs			9	Α
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			24	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20µs			28.5	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.47		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		22	45	pF

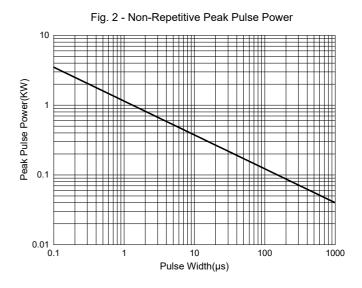
Note:

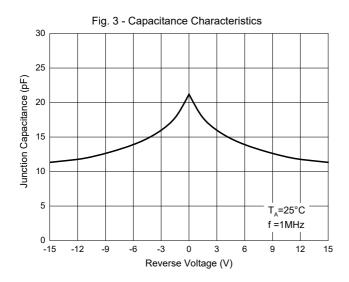
Non-repetitive current pulse, according to IEC61000-4-5.
I/O to Ground, TLP parameter: Z₀=50Ω, t_p=100ns, t_r=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

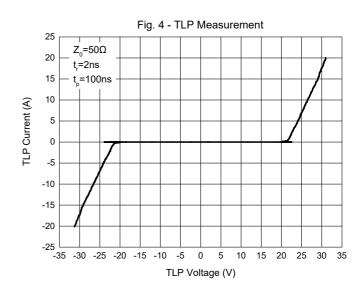


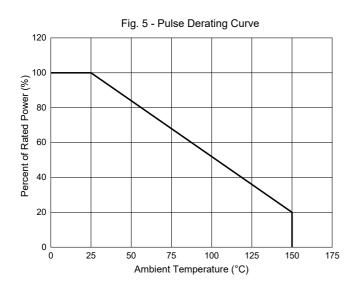
Curve Characteristics













Ordering Information

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

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