

Features

- · Bi-Directtional ESD Protection of One Line
- · Low Capacitance
- Low Leakage Current
- · Low Reverse Clamping Voltage
- IEC 61000-4-2 Level 4 ESD Protection
- · 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
ESDBV5V0D5	HD

IEC61000-4-2(ESD)	Air Contact	±15KV ±15KV	
JESD22-A114-B(ESD)	Machine Human Body	±0.4KV ±16KV	
Peak Pulse Current(8/20μs)	I _{PP}	4A	
Peak Pulse Power (8/20us)	P _{PK}	52W	

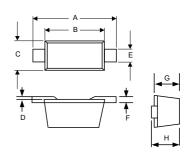
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

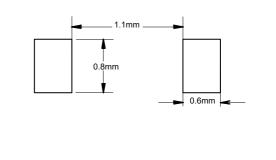


ESD Protection Device





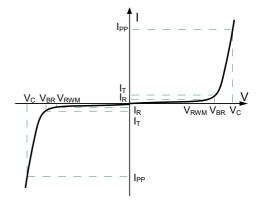
DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.000	0.003	0.00	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.008	0.08	0.20	
G	0.020	0.026	0.50	0.65	
Н	0.020	0.026	0.50	0.65	





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}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	5.6		8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μΑ
Clamping Voltage	V _C	I _{PP} =4A, t _P =8/20μs			13	V
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		3		pF

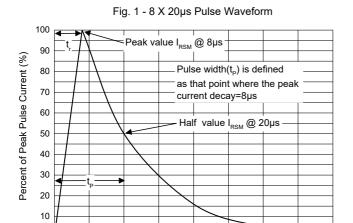
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Curve Characteristics

0

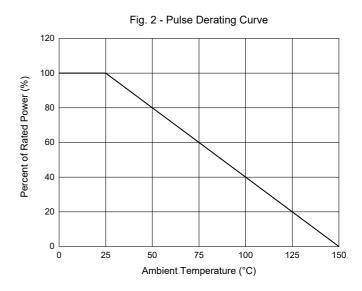
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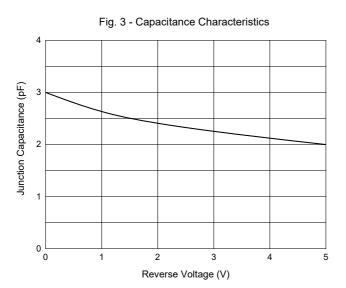


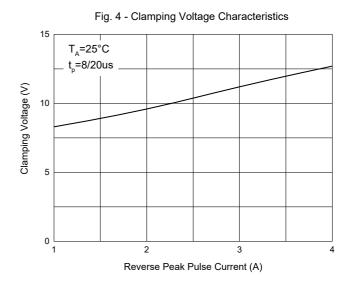
40

Time (µs)

60









Ordering Information

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

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