

Features

- Solid-State Silicon Technology
- · Low Clamping Voltage
- · Low Leakage Current
- · 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 +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESDH3V3AE2	E3		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT)(5/50ns)		80A
Peak Pulse Current(8/20μs)	I _{PP}	20A
Peak Pulse Power (8/20µs)	P _{PK}	170W

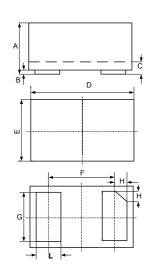
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



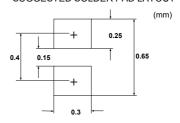
ESD Protection Device

0201-A



	DIMENSIONS					
DIM INCHE		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.009	0.013	0.23	0.33		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.022	0.026	0.55	0.65		
Е	0.010	0.014	0.25	0.35		
F	0.014		0.355		TYP.	
G	0.008	0.011	0.22	0.28		
Н	0.003		0.079		TYP.	
L	0.006	0.009	0.16	0.22		

SUGGESTED SOLDER PAD LAYOUT



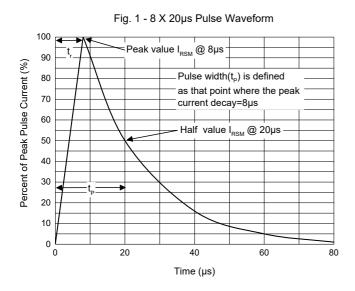


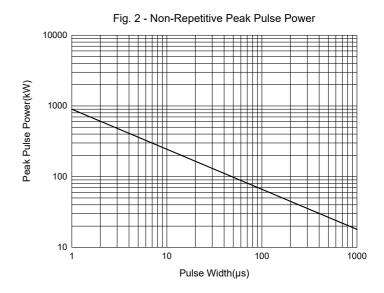
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

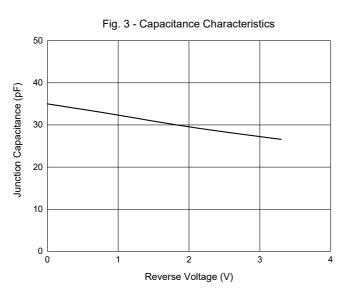
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	3.5	4		V
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} =50mA	3.5	4		V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs			5.5	V
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			7	V
Clamping Voltage	V _C	I _{PP} =20A, t _P =8/20μs			8.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		35	45	pF
Junction Capacitance	CJ	V _R =2.5V, f=1MHz		25	35	pF

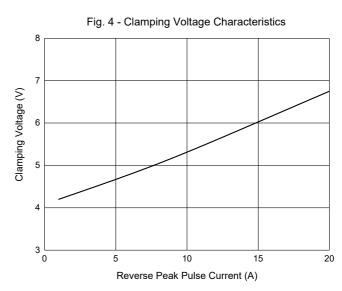


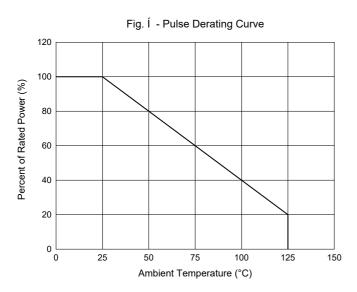
Curve Characteristics

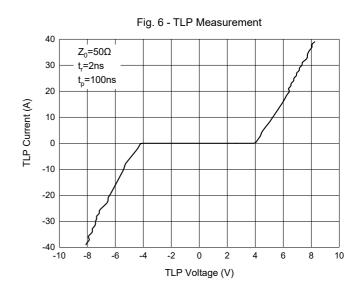














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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