

Features

- Solid-state Silicon technology
- Ultra Low Capacitance
- 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

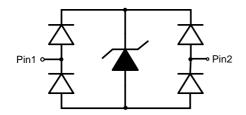
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDSBSLC3V3AE2	U3

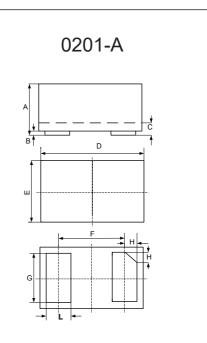
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20µs)	I _{PP}	4A	
Peak Pulse Power (8/20µs)	P _{PK}	34W	

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







	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
А	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	0.0)14	0.3	355	TYP.	
G	0.008	0.011	0.22	0.28		
Н	0.0	03	0.0)79	TYP.	
L	0.006	0.009	0.16	0.22		
SUGGESTED SOLDER PAD LAYOUT						
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	_+	<u></u>	+			



Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	$I_T = 1mA$	7	10		V
Reverse Leakage Current	I _R	V _{RWM} =3.3V		<1	50	nA
Clamping Voltage ^(Note 2)	V _c	I _{PP} =16A, t _P =100ns		9		V
Dynamic Resistance ^(Note 2)	R _{DYN}			0.25		Ω
Clamping Voltage ^(Note 3)	V _C	V _{ESD} =8KV		9		V
Clamping Voltage ^(Note 4)	V _c	I _{PP} =1A, t _P =8/20μs		4.5	5.5	V
Clamping Voltage ^(Note 4)	V _c	I _{PP} =4A, t _P =8/20μs		7	8.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.35	0.5	pF

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Note:

2. TLP Parameter: $Z_0=50\Omega$, $t_p=100$ ns, $t_r=2$ ns, Averaging Window from 60ns to 80ns. R_{DYN} is Calculated from 4A to 16A.

3. . Contact Discharge Mode, According to IEC61000-4-2.

4. . Non-repetitive Current Pulse, According to IEC61000-4-5.





Curve Characteristics

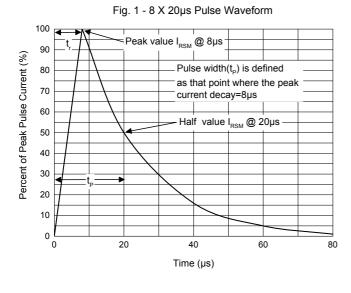
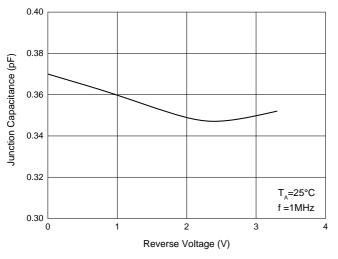


Fig. 3 - Capacitance Characteristics





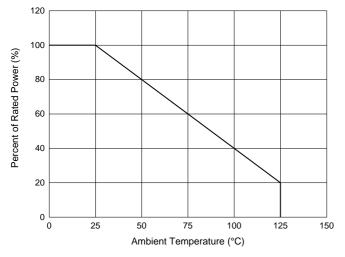


Fig. 2 - Non-Repetitive Peak Pulse Power

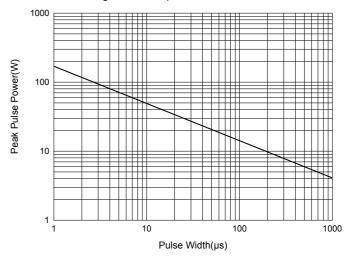
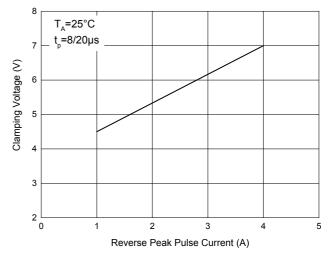


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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