

Features

- · Solid-State Silicon Technology
- Low Leakage Current
- · Low Capacitance
- · Low Clamping Voltage
- · Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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		
ESDSBL5V0AE2	A5		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	8A
Peak Pulse Power (8/20µs)	P _{PK}	96W

Note:

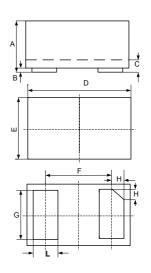
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



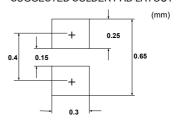
ESD Protection Device

0201-A



DIMENSIONS						
DIM	INCHES		MM		NOTE	
MIN M		MAX	MIN	MAX	NOTE	
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	0.0)14	0.3	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)

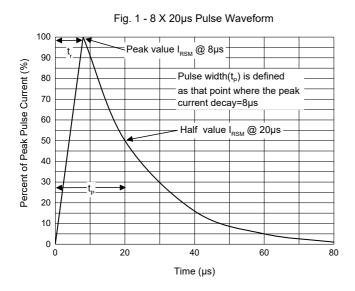
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			100	nA
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	5.3	6		V
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} = 50mA	5.3	6		V
Clamping Voltage ^(Note 1)	V _C	I _{PP} =16A, t _P =100ns		10		V
Dynamic Resistance ^(Note 1)	R _{DYN}			0.2		Ω
Clamping Voltage ^(Note 2)	V _C	V _{ESD} =8KV		10		V
Clamping Voltage ^(Note 3) V _C	V-	I _{PP} =1A, t _P =8/20μs			8	V
	V C	I _{PP} =8A, t _P =8/20μs			12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		10	13	pF
		V _R =2.5V, f=1MHz		8	11	pF

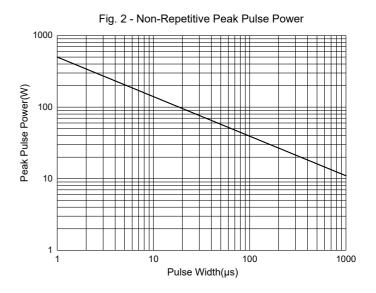
Note:

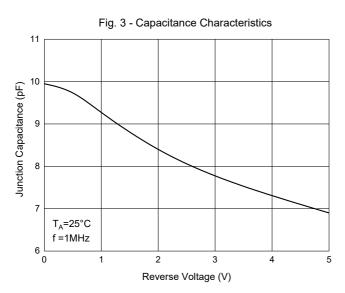
- 1. TLP Parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, Averaging Window from 60ns to 80ns. R_{DYN} is Calculated from 4A to 16
- 2. Contact Discharge Mode, According to IEC61000-4-2.
- 3. Non-repetitive Current Pulse, According to IEC61000-4-5.

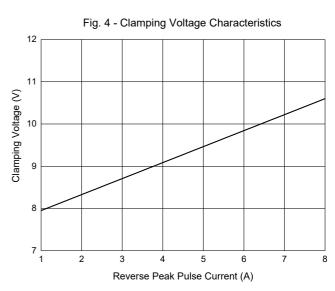


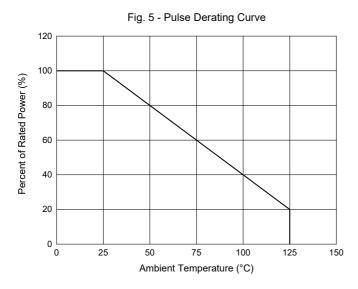
Curve Characteristics

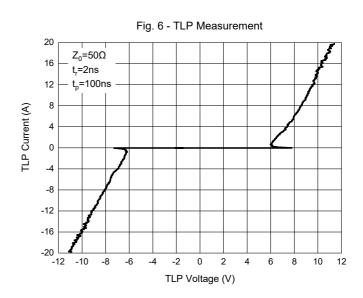














Ordering Information

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

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