

Features

- · Dual Transil Array For ESD Protection
- · 2 Unidirectional Transil Functions
- · 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

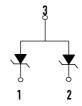
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDA6V1L	EL61

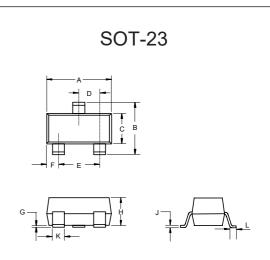
Electrostatic Discharge MIL STD 883C-Method 3015-6 IEC61000-4-2 Air Discharge IEC61000-4-2 Contact Discharge	V_{PP}	25KV 16KV 9KV		
Peak Pulse Power (8/20us)	P _{PK}	300W		

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

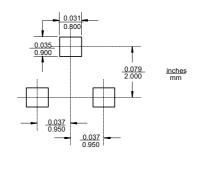


ESD Protection Device



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

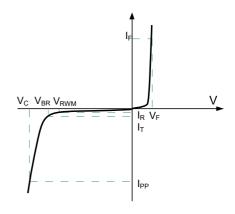
Suggested Solder Pad Layout





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
V_{RWM}	Peak Reverse Working Voltage		
I _R	Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _T		
Ι _Τ	Test Current		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
P_{PP}	Peak Pulse Power		
Сл	Junction Capacitance		
I _F	Forward Current		
V_{F}	Forward Voltage @ I _F		

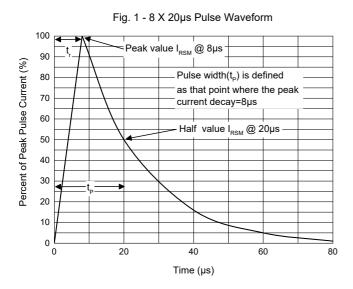


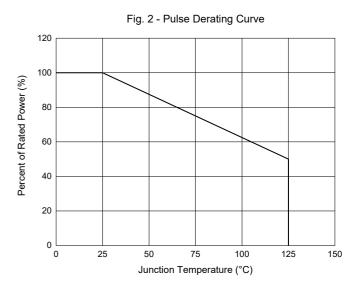
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

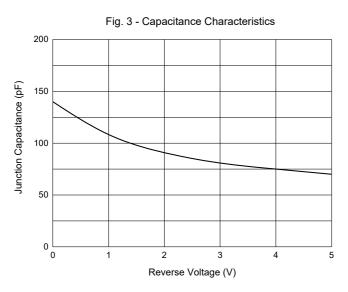
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5.25	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6.1	6.65	7.2	V
Reverse Leakage Current	I _R	V _{RWM} =5.25V			20	μA
Forward Voltage	V _F	I _F =200mA			1.25	V
Maximum Peak Pulse Current	I _{PPM}	t _P =8/20µs			18.5	Α
Clamping Voltage	V _C	I _{PP} =18.5A, t _P =8/20μs			16.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		140		pF



Curve Characteristics







Rev.3-4-12012020 3/4 MCCSEMI.COM



Ordering Information

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

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