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ESDA6V1L

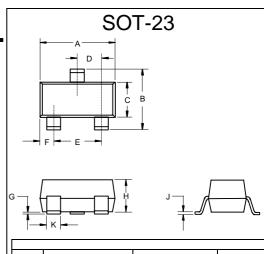
Features

- Dual Transil Array For ESD Protection
- 2 Unidirectional Transil Functions
- Low leakageCurrent: IRmax<20 uA at Vwm
- 300W peak pulse power (8/20 us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

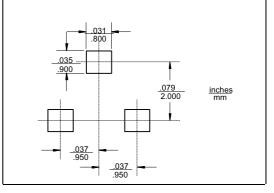
Maximum Ratings

Parameter	Symbol	Limits	unit
Electrostatic discharge MIL STD 883C-Method 3015-6 IEC61000-4-2 air discharge IEC61000-4-2 contact discharge	V_{PP}	25 16 9	KV KV KV
Peak pulse power 8/20us	P _{PP}	300	W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55~+150	°C
Maximum lead temperature For soldering during 10s	T _L	260	°C

6.1Volts ESD Protection Device



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



Pin Configuration-Top View

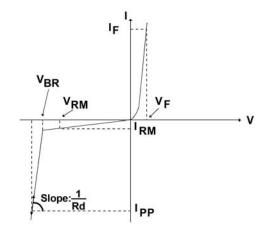


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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter
V_{WM}	Stand-off voltage
V_{BR}	Breakdown voltage
V_{CL}	Clamping voltage
I _{RM}	Leakage current
I_{PP}	Peak pulse current
αΤ	Voltage temperature coefficient
С	Capacitance
R_d	Dynamic resistance
V _F	Forward voltage drop



Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Breakdown voltage	I _R =1.0mA	V_{BR}	6.1	6.65	7.2	V
Leakage current	V _{WM} =5.25V	I _R	-	-	20	μΑ
Capacitance	0V bias	С	-	140	-	pF
Forward voltage drop	I _F =200mA	V _F	-	-	1.25	V



100

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TYPICAL CHARACTERISTICS

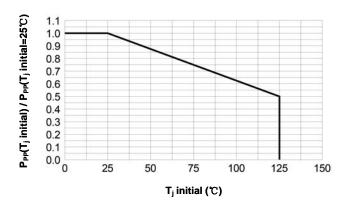


Fig.1: Peak power dissipation vs. initial junction temperature

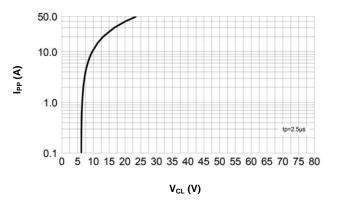


Fig.3: Clamping voltage vs. peak pulse current (Tj initial = 25°C, rectangular waveform tp = 2.5µs)

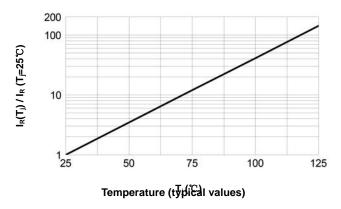


Fig.5: Relative variation of leakage current vs. junction

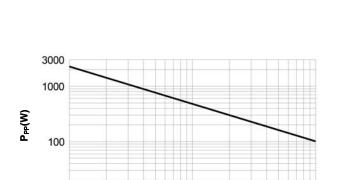


Fig.2: Peak pulse power vs. exponential pulse duration $(T_j initial = 25 \degree)$

10

tp (µs)

10 1

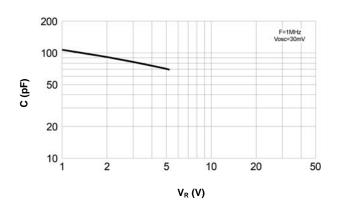


Fig.4: Capacitance vs. reverse applied voltage (typical values)

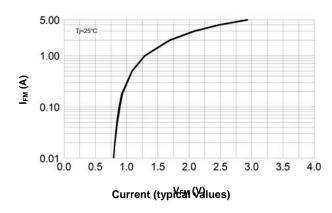


Fig.6: Peak forward voltage drop vs. peak forward



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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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