



Micro Commercial Components



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ESDA6V1L

Features

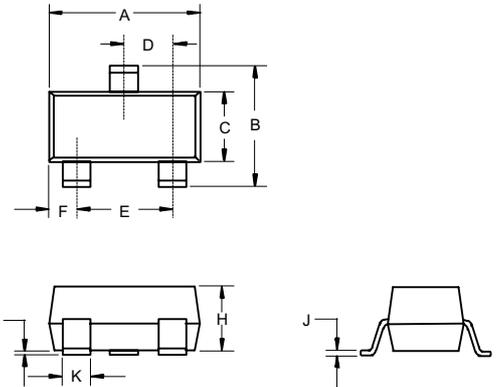
- Dual Transil Array For ESD Protection
- 2 Unidirectional Transil Functions
- Low leakageCurrent: $I_{Rmax} < 20 \mu A$ at V_{WM}
- 300W peak pulse power (8/20 us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

6.1Volts ESD Protection Device

Maximum Ratings

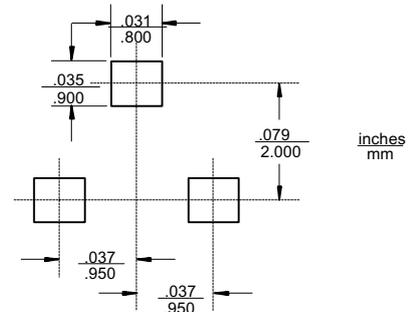
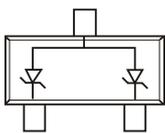
Parameter	Symbol	Limits	unit
Electrostatic discharge MIL STD 883C-Method 3015-6	V_{PP}	25	KV
IEC61000-4-2 air discharge		16	KV
IEC61000-4-2 contact discharge		9	KV
Peak pulse power 8/20us	P_{PP}	300	W
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55~+150	°C
Maximum lead temperature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

SOT-23



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

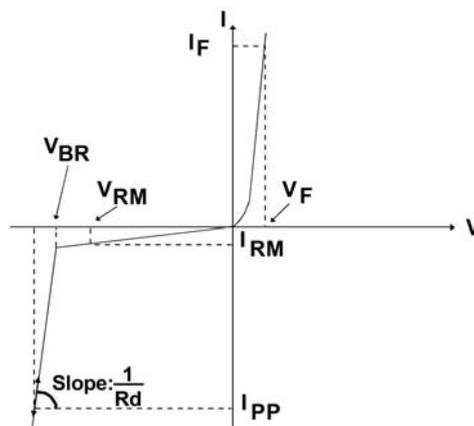
Pin Configuration-Top View



ESDA6V1L

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ 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
αT	Voltage temperature coefficient
C	Capacitance
R_d	Dynamic resistance
V_F	Forward voltage drop



Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Breakdown voltage	$I_R=1.0\text{mA}$	V_{BR}	6.1	6.65	7.2	V
Leakage current	$V_{WM}=5.25\text{V}$	I_R	-	-	20	μA
Capacitance	0V bias	C	-	140	-	pF
Forward voltage drop	$I_F=200\text{mA}$	V_F	-	-	1.25	V

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TYPICAL CHARACTERISTICS

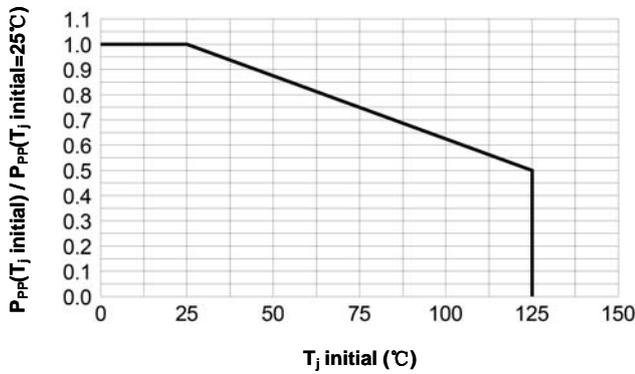


Fig.1: Peak power dissipation vs. initial junction temperature

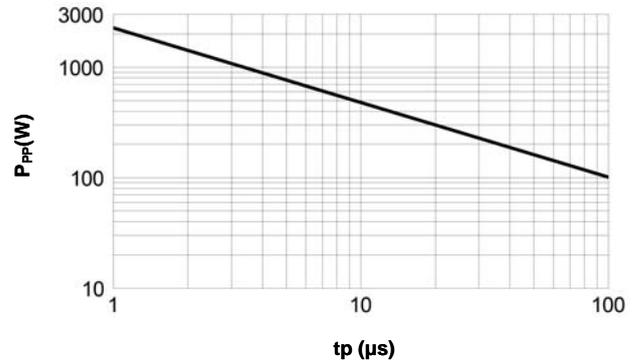


Fig.2: Peak pulse power vs. exponential pulse duration (T_j initial = 25°C)

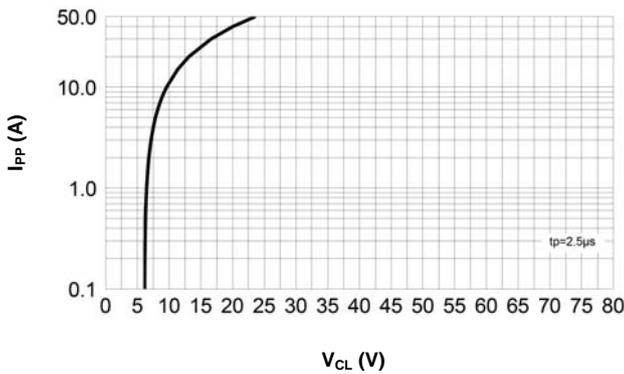


Fig.3: Clamping voltage vs. peak pulse current (T_j initial = 25°C, rectangular waveform tp = 2.5µs)

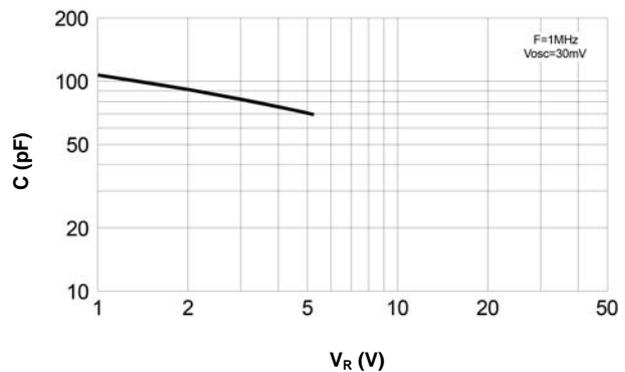


Fig.4: Capacitance vs. reverse applied voltage (typical values)

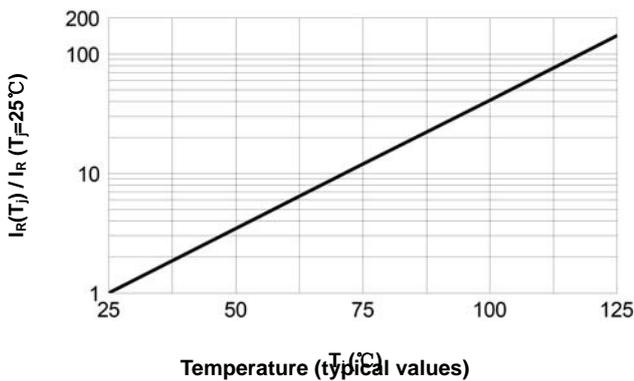


Fig.5: Relative variation of leakage current vs. junction

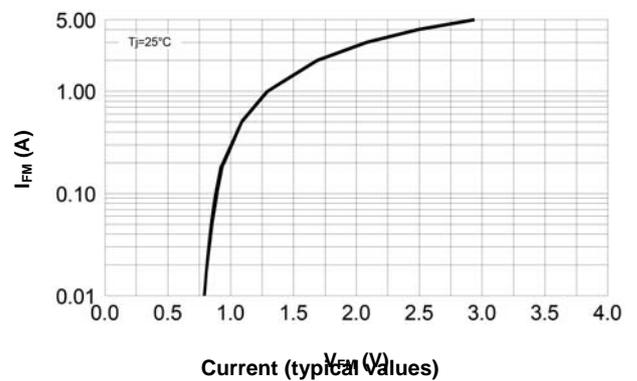


Fig.6: Peak forward voltage drop vs. peak forward



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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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