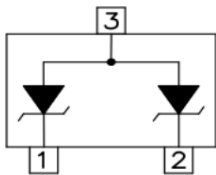


Applications

- * Power Management
- * Industrial Application
- * Power Supply Protection
- * Many other portable devices
- * SOT-23 Package



Circuit Diagram



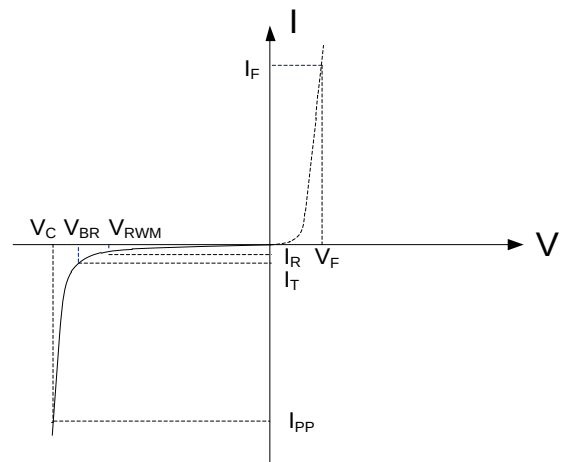
Ordering Information

Part Number	Packaging	Reel Size
ESDA5V3L	3000/Tape & Reel	7 inch

Marking: M03

Portion Electronics Parameter

Symbol	Parameter
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}



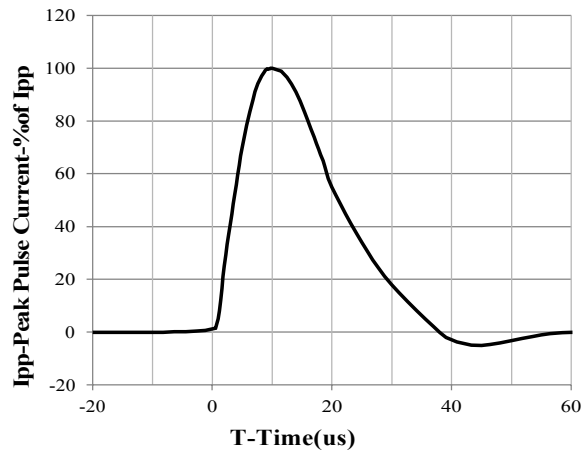
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	P_{pk}	350	W
Peak Pulse Current (8/20 μs)	I_{PP}	25	A
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 30	kV
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

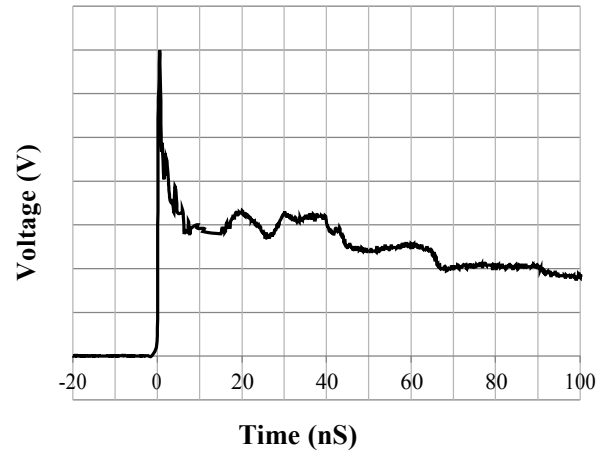
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				3.3	V
Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$, Pin1/Pin2-Pin3	4.0	6.0	7.0	V
Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$, Pin1-Pin2	5.0	6.7	8.0	V
Reverse Leakage Current	I_R	$V_{RWM} = 3.3\text{V}$			0.2	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}$ (8 /20 μs pulse), Pin1/Pin2-Pin3			8	V
Clamping Voltage	V_C	$I_{PP} = 25\text{A}$ (8 /20 μs pulse), Pin1/Pin2-Pin3			14	V
Clamping Voltage	V_C	$I_{PP} = 1\text{A}$ (8 /20 μs pulse), Pin1-Pin2			9	V
Clamping Voltage	V_C	$I_{PP} = 25\text{A}$ (8 /20 μs pulse), Pin1-Pin2			17	V
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$, Pin1/Pin2-Pin3		150	240	pF
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$, Pin1-Pin2		75	120	pF

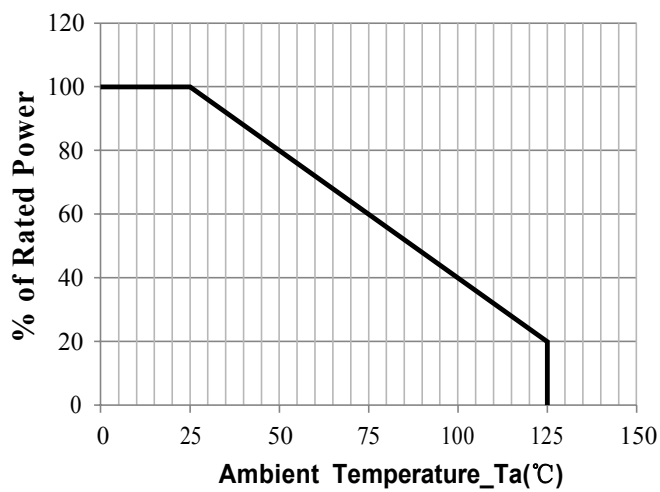
Typical Performance Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise Specified)



8 / 20us Pulse Waveform

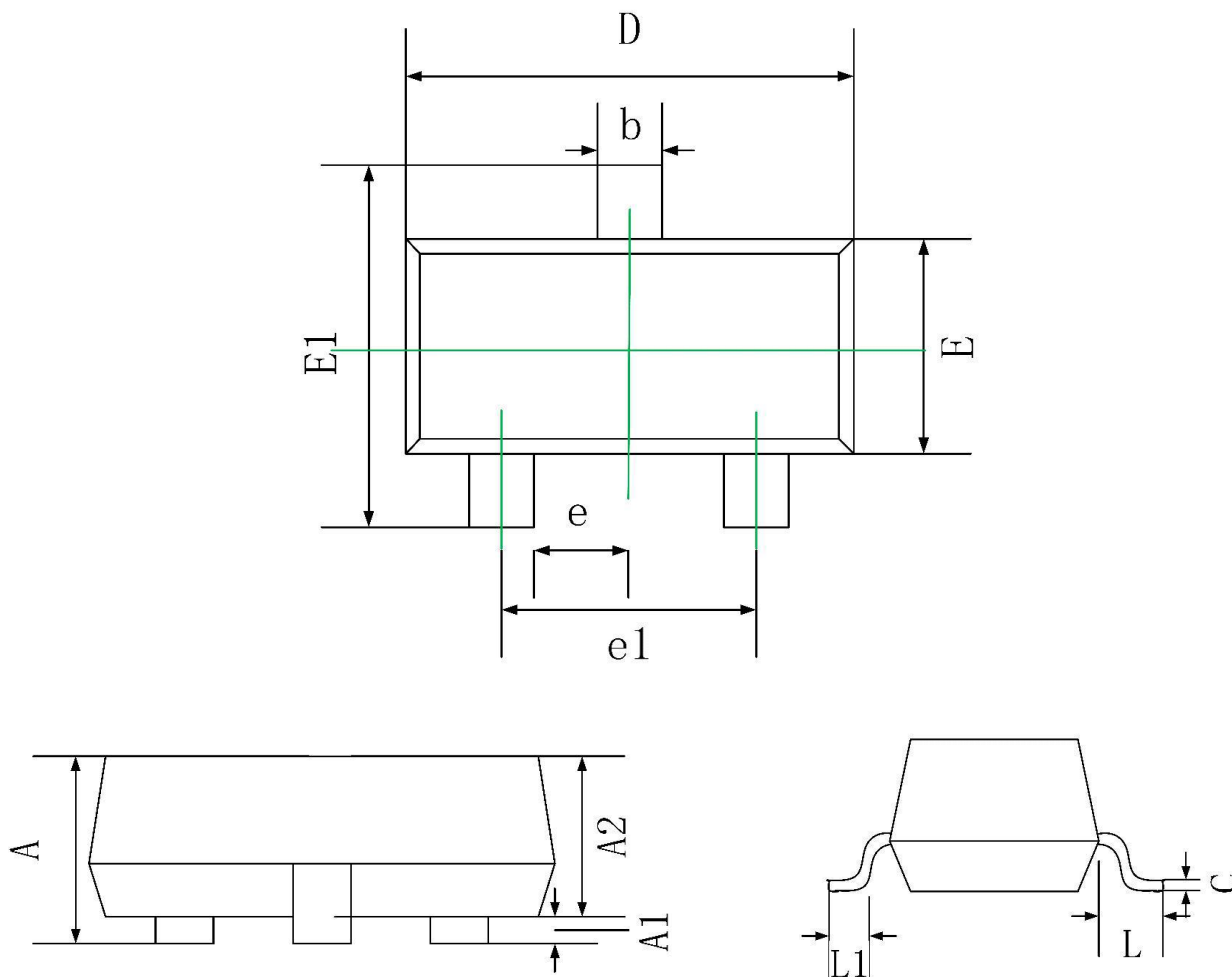


IEC61000-4-2 Pulse Waveform



Power Derating Curve

SOT-23 Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020