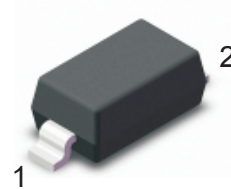


Uni-direction ESD Protection Diode

FEATURES

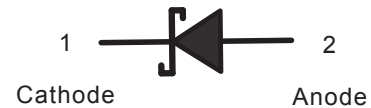
- Uni-directional ESD protection
- Low reverse stand-off voltage: 5V
- Low reverse clamping voltage
- Low leakage current
- Fast response time

SOD-123



MARKING: 5-

CIRCUIT DIAGRAM



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

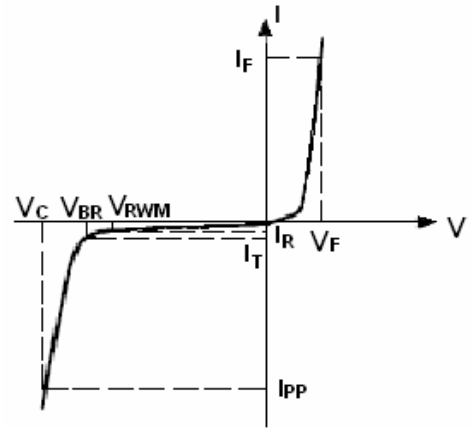
Parameter	Symbol	Limit	Unit
IEC 61000-4-2 ESD Voltage	Air Model	±25	kV
	Contact Model	±25	
JESD22-A114-B ESD Voltage	Per Human Body Model	±16	
ESD Voltage	Machine Model	±0.4	
Peak Pulse Power	$P_{PP}^{(2)}$	260	W
Peak Pulse Current	$I_{PP}^{(2)}$	13	A
Lead Solder Temperature – Maximum (10 Second Duration)	T_L	260	°C
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

(1).Device stressed with ten non-repetitive ESD pulses.

(2).Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

ELECTRICAL PARAMETER

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



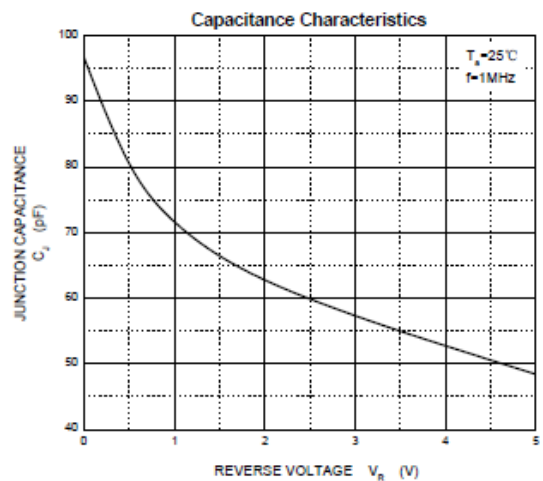
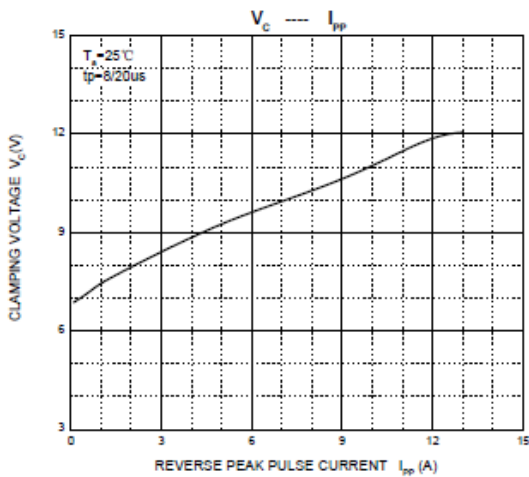
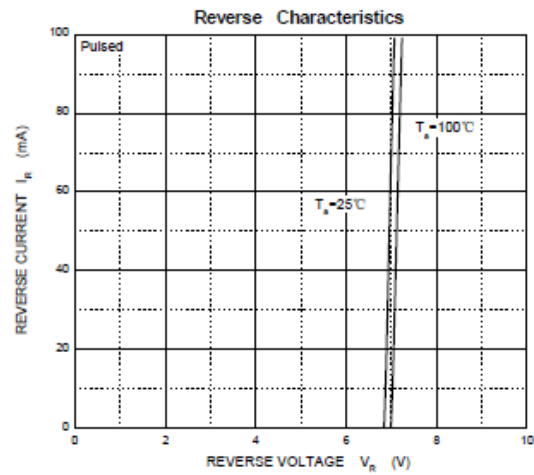
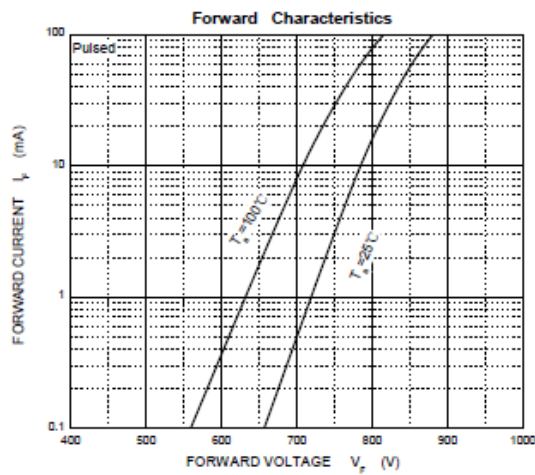
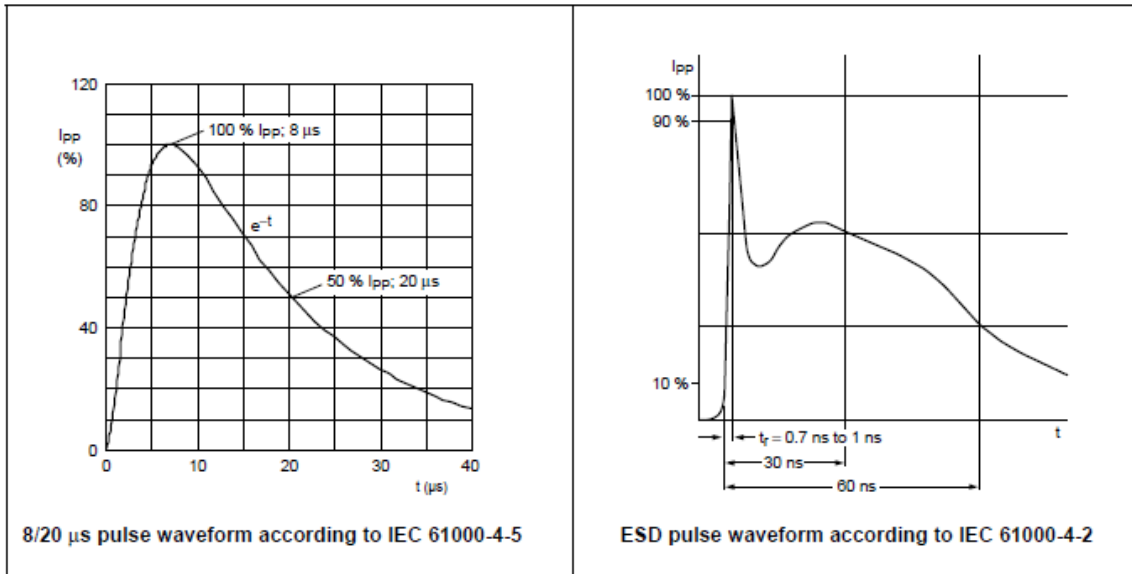
ELECTRICAL CHARACTERISTICS(Ta=25°C V_F = 1.1 V Max. at I_F = 10 mA)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse stand off voltage	$V_{RWM}^{(1)}$				5.0	V
Reverse leakage current	I_R	$V_{RWM}=5.0V$			1.0	μA
Breakdown voltage	$V_{(BR)}$	$I_T=1mA$	6.2		7.3	V
Clamping voltage	$V_C^{(2)}$	$I_{PP}=13A$			13	V
Junction capacitance	C_J	$V_R=0V, f=1MHz$		95		pF

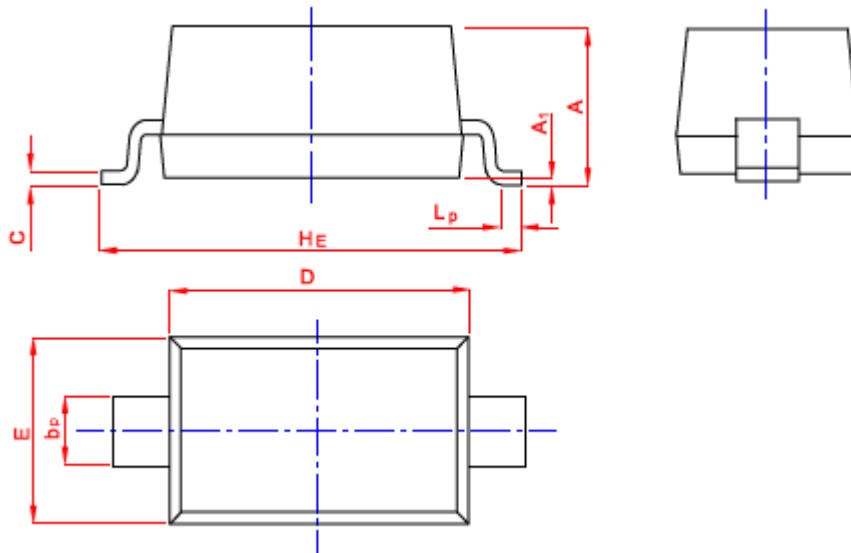
(1).Other voltages available upon request.

(2).Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5

TYPICAL CHARACTERISTICS



SOD-123 PACKAGE OUTLINE DRAWING



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.90	1.20	0.035	0.047
b _p	0.50	0.60	0.020	0.024
C	0.100	0.135	0.004	0.005
D	2.55	2.75	0.100	0.108
E	1.55	1.65	0.061	0.065
H _E	3.55	3.85	0.140	0.152
A ₁	0.01	0.10	0.0004	0.004
L _p	0.20	0.50	0.008	0.020

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