

Features

- Ultra low leakage: nA level
- Low operating voltage: 5V
- Low clamping voltage
- 2-Pin leadless package
- Complies with following standards:
 - IEC 61000 -4-2 (ESD) immunity test
Air discharge: ±25kV
Contact discharge: ±25kV
 - IEC61000 -4-5 (Lightning) 13A (8/20 μs)
- RoHS Compliant

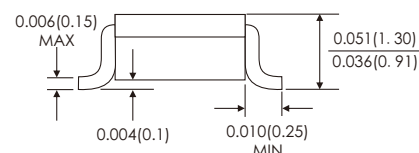
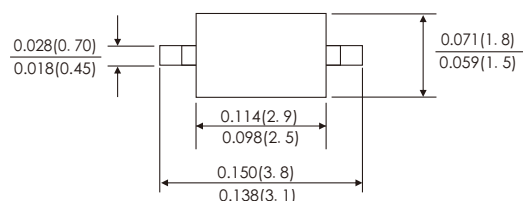
Application

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals
- Audio Players
- Keypads, Side Keys, LCD Displays

Mechanical Data

- SOD-123 package
- Case Material: "Green " Molding Compound.
- Moisture Sensitivity: Level 1 per J- STD -020
- Marking Information: KE
- Polarity: color band denotes cathode end

SOD-123



Dimensions in inches and (millimeters)



KE = Device Marking Code

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

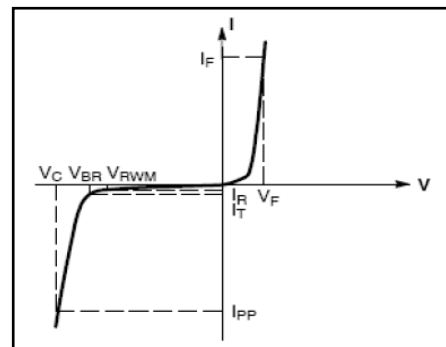
Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 25	kV
ESD per IEC 61000-4-2 (Contact)		± 25	
Peak Pulse Power	P _{pp}	170	W
Peak Pulse Current	I _{pp}	13	A
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	
Breakdown Voltage	VBR	6.2		7.3	V	IT = 1mA
Reverse Leakage Current	IR			1.0	μA	VRWM = 5V
Clamping Voltage	VC			13	V	I _{PP} = 13A (8 / 20μs pulse)
Forward voltage	VF			0.9	V	IF = 10mA
Junction Capacitance	CJ		95		pF	VR = 0V, f = 1MHz

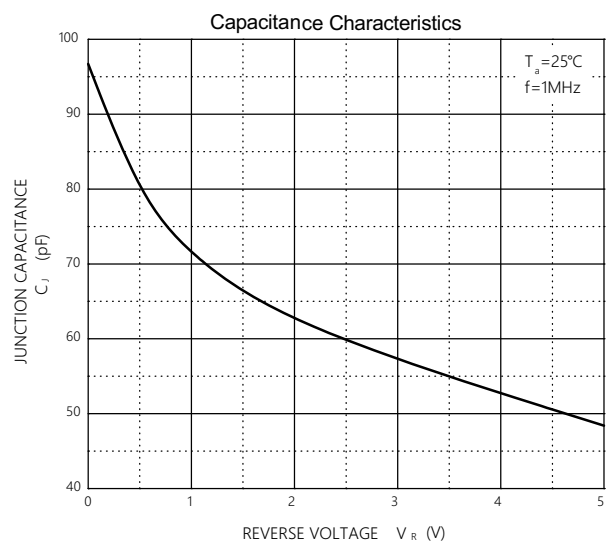
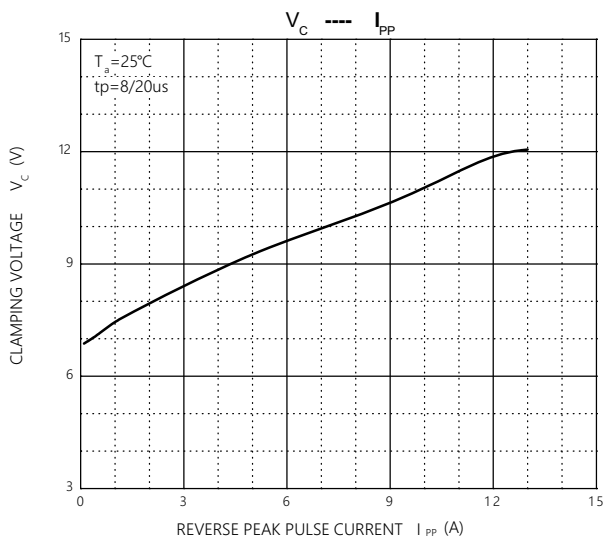
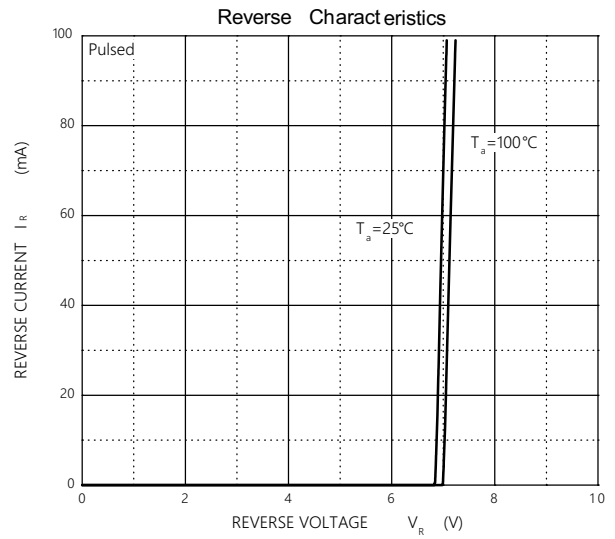
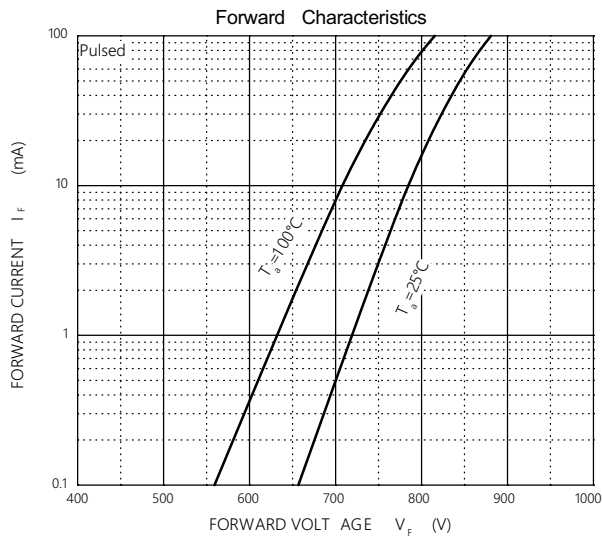
Electrical Parameter

Symbol	Parameter
VC	Clamping Voltage @ I _{PP}
I _{PP}	Peak Pulse Current
VBR	Breakdown Voltage @ I _T
I _T	Test Current
IR	Reverse Leakage Current @ V _{RWM}
VRWM	Reverse Stand off Voltage
VF	Forward Voltage @ I _F
IF	Forward Current



V-I characteristics for a uni-directional TVS

Typical Performance Characteristics (TA=25°C unless otherwise Specified)



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