

Features

- Very low forward voltage

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

Mechanical Data

- Case: SOD-123
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208



SOD123



PIN	DESCRIPTION
1	Cathode
2	Anode

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

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V _R	40	V
Maximum Average Forward Output Current	I _{F(AV)}	2	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I _{FSM}	20	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	500	mW
Operating Junction Temperature	T _J	-55 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Electrical Characteristics (T = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$	40	-	-	V
Forward Voltage	V_F	$I_F = 1A$	-	-	0.55	V
		$I_F = 2A$	-	-	0.65	V
Maximum Peak Reverse Current	I_R	$V_R = 40V$	-	-	50	μA

Typical Electrical Characteristic Curves

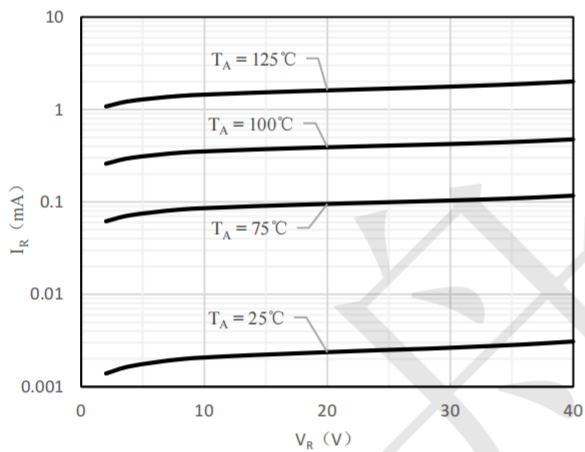


Fig 1 Typical Reverse Characteristic

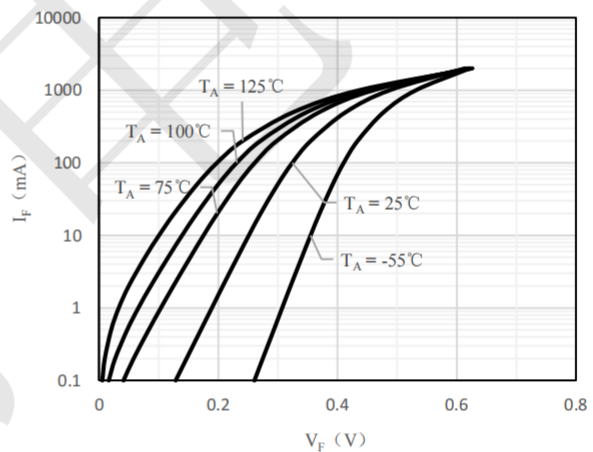
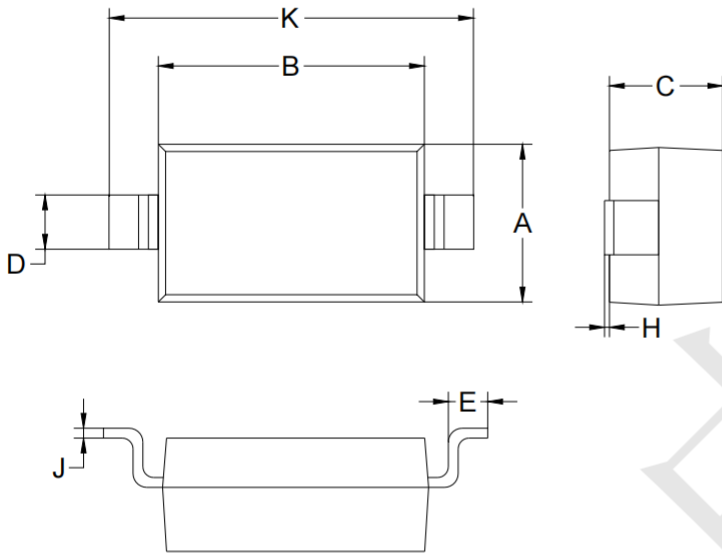


Fig 2 Typical Forward Characteristics

Outline Drawing - SOD123 (unit: mm)



SOD-123		
Dim	Min	Max
A	1.45	1.75
B	2.55	2.85
C	1.00	1.30
D	0.50	0.60
E	0.25	0.45
H	0.02	0.10
J	0.05	0.15
K	3.55	3.85

Mounting Pad Layout-SOD123 (unit: mm)

