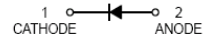




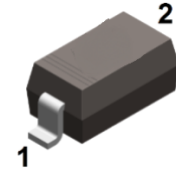
Features

- Low forward voltage drop
- High conductance
- Guard ring construction for transient protection



Mechanical Data

- Case: SOD-123
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



SOD-123

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
B0560W	SOD-123	3000 pcs / Tape & Reel	SG

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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	60	V
Working Peak Reverse Voltage	V _{RWM}	60	V
DC Reverse Voltage	V _R	60	V
Continuous Forward Current	I _F	0.5	A
Non-Repetitive Peak Forward Surge Current (t _p = 8.3ms)	I _{FSM}	5.5	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	410	mW
Thermal Resistance Junction-to-Air	R _{θJA}	244	°C/W
Operating Junction Temperature Range	T _J	-65 ~ +125	°C
Storage Temperature Range	T _{STG}	-65 ~ +125	°C



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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu\text{A}$	60	-	-	V
Forward Voltage	V_F	$I_F = 0.5\text{A}$	-	0.62	0.7	V
Maximum Peak Reverse Current	I_R	$V_R = 60\text{V}$	-	-	0.1	mA
Capacitance Between Terminals	C_J	$V_R = 4\text{V}, f = 1\text{MHz}$	-	30	-	pF

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

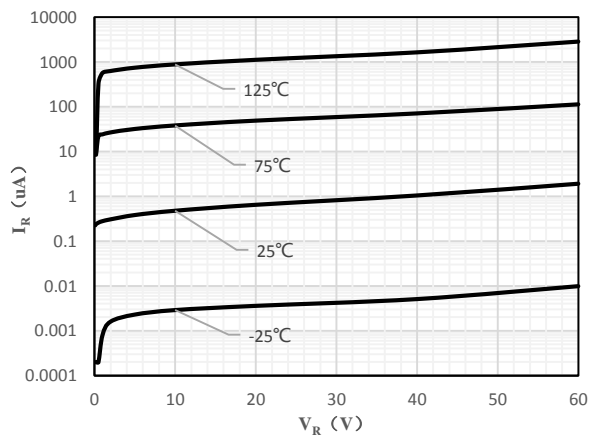


Fig 1 Typical Reverse Characteristic

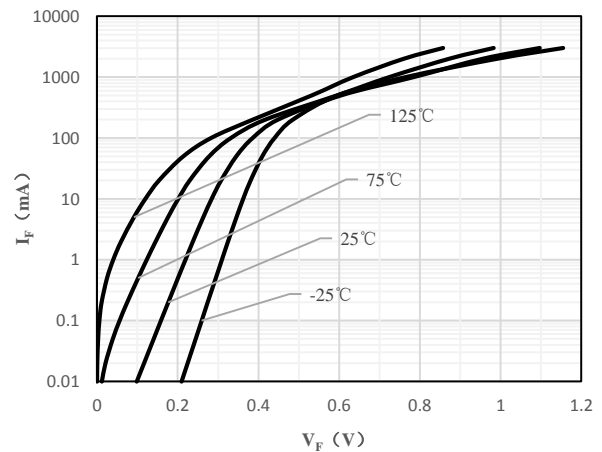


Fig 2 Typical Forward Characteristics

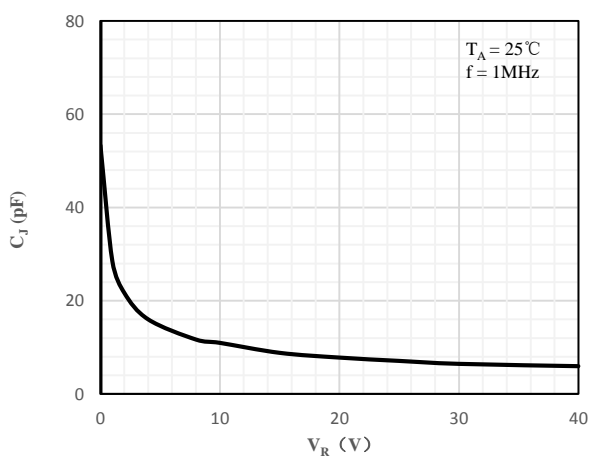


Fig 3 Capacitance Characteristics

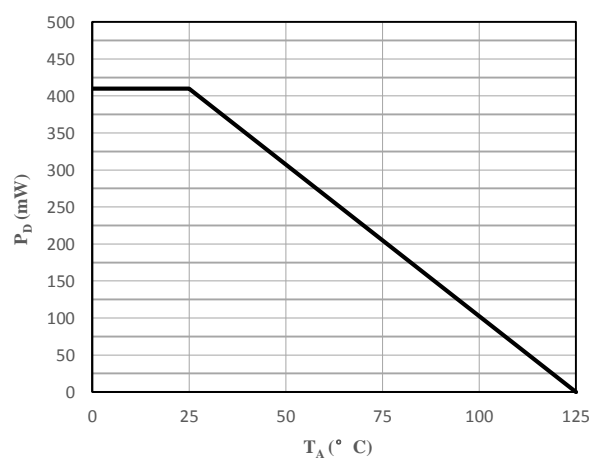
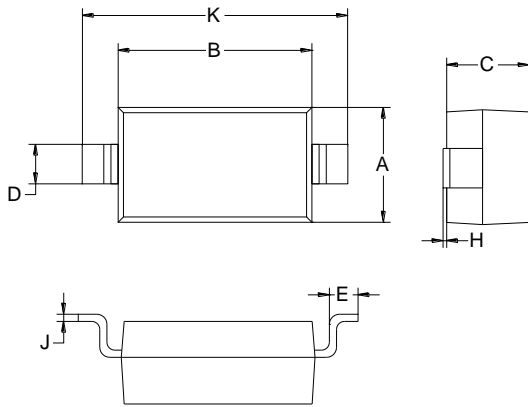


Fig 4 Power Derating Curve



Package Outline Dimensions (Unit: mm)



SOD-123		
Dimension	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

Package Outline Dimensions (Unit: mm)

SOD-123

