

Features

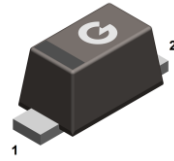
- High speed and high reliability
- RoHS compliant with Halogen-free

HF

Mechanical Data

- Case: SOD-723
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

1 CATHODE 2 ANODE



SOD-723

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
1SS400G	SOD-723	10000 pcs / Tape & Reel	A

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

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
DC Blocking Voltage	V _R	100	V
Average Rectified Output Current	I _o	100	mA
Forward Current	I _{FM}	225	mA
Peak Forward Surge Current, 1s Single Half-sine-wave	I _{FSM}	0.5	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	100	mW
Thermal Resistance Junction-to-Air *1	R _{θJA}	350	°C/W
Thermal Resistance Junction-to-Case *1	R _{θJC}	250	°C/W
Thermal Resistance Junction-to-Lead *1	R _{θJL}	260	°C/W
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Note 1: The data tested by surface mounted on a 1 inch² FR-4 board with 2OZ copper

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu\text{A}$	100	-	-	V
Forward Voltage	V_F	$I_F = 100\text{mA}$	-	-	1.2	V
Maximum Peak Reverse Current	I_R	$V_R = 80\text{V}$	-	-	0.1	μA
Total Capacitance	C_J	$V_R = 0.5\text{V}, f = 1.0\text{MHz}$	-	-	3	pF
Reverse Recovery Time	t_{rr}	$I_F = 10\text{mA}, V_R = 6\text{V}$ $R_L = 100\Omega$	-	-	4	ns

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

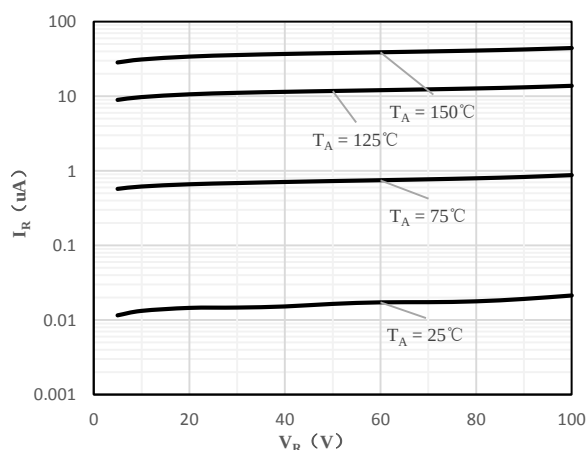


Fig 1 Typical Reverse Characteristic

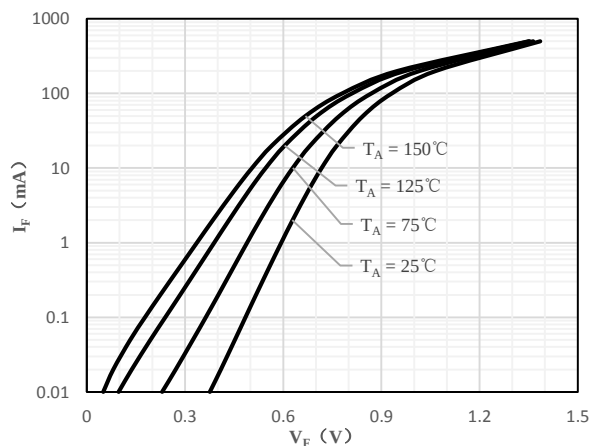


Fig 2 Typical Forward Characteristics

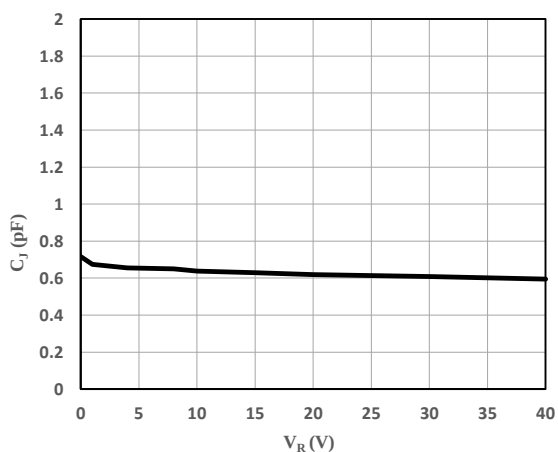


Fig 3 Capacitance vs. Reverse Voltage

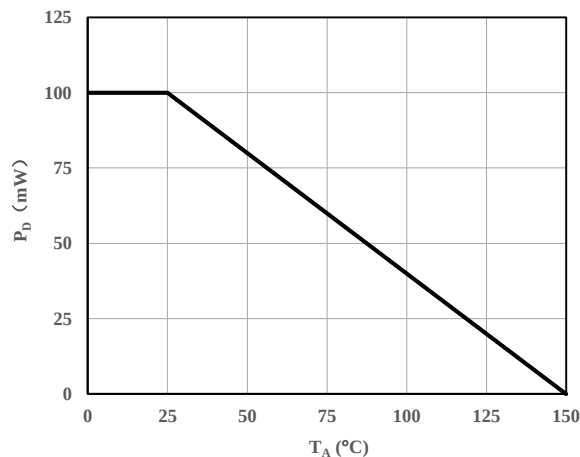
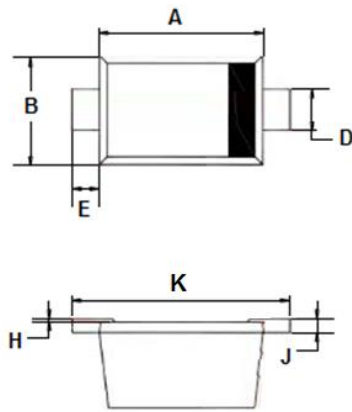


Fig 4 Power Derating Curve

Package Outline Dimensions (Unit: mm)



SOD-723		
Dimension	Min.	Max.
A	0.900	1.100
B	0.550	0.650
C	0.515	0.580
D	0.250	0.350
E	0.100	0.300
F	0.525	0.650
H	0.010	0.070
J	0.080	0.150
K	1.300	1.500

Package Outline Dimensions (Unit: mm)

SOD-723

