

Features

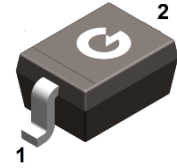
- Ultra low leakage current
- High temperature soldering guaranteed

HF

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Mechanical Data

- Case: SOD-323
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin- plated leads; solderability-per MIL-STD-202, Method 208



SOD-323

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
S10JS	SOD-323	3000 pcs / Tape & Reel	S10

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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	600	V
RMS Reverse Voltage	V _{RMS}	420	V
DC Reverse Voltage	V _R	600	V
Maximum Average Forward Output Current	I _{F(AV)}	1	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	300	mW
Thermal Resistance Junction-to-Air	R _{θJA}	500	°C/W
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 1\text{A}, T_J = 25^\circ\text{C}$	-	-	1.1	V
		$I_F = 1\text{A}, T_J = 125^\circ\text{C}$	-	-	0.98	V
Maximum Peak Reverse Current	I_R	$V_R = V_{RRM}, T_J = 25^\circ\text{C}$	-	-	2	μA
		$V_R = V_{RRM}, T_J = 125^\circ\text{C}$	-	-	50	μA
Reverse Recover Time	t_{rr}	$I_F = 0.5\text{A}, I_R = 1\text{A}, I_{rr} = 0.25\text{A}$	-	600	-	ns

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

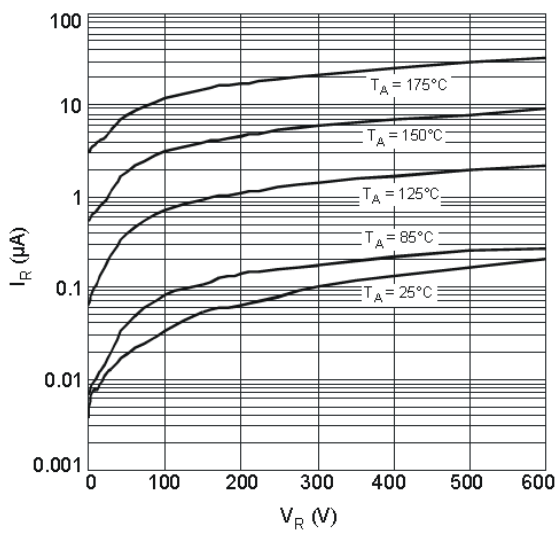


Fig. 1 Typical Reverse Characteristics

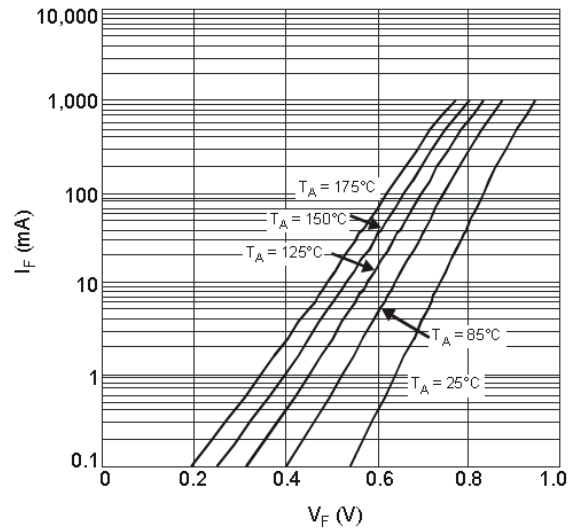
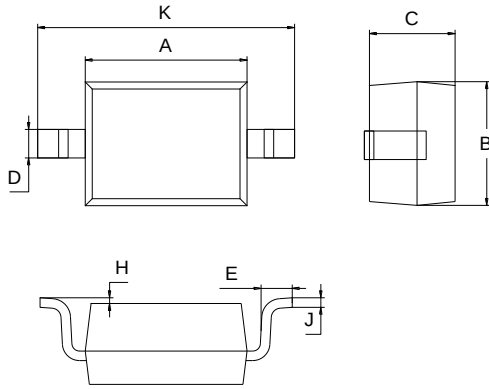


Fig. 2 Typical Forward Characteristics

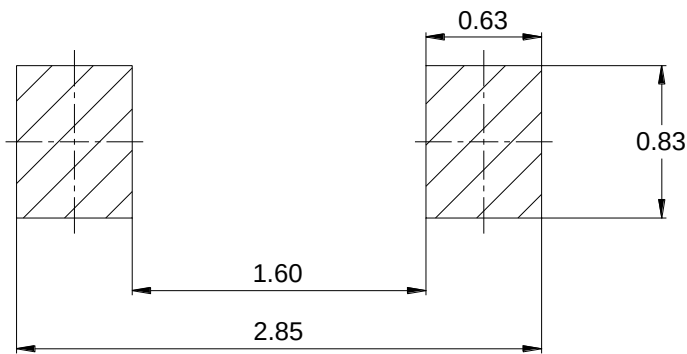
Package Outline Dimensions (Unit: mm)



SOD-323		
Dimension	Min.	Max.
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

Package Outline Dimensions (Unit: mm)

SOD-323



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